

Algebra II
Lesson #2 Unit 9
Class Worksheet #2
For Worksheets #2 - #4

Algebra 2 Class Worksheet #2 Unit 9

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Arithmetic Sequences :

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$

The first term is 3.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3,

The first term is 3.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3,

The first term is 3.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3,

The first term is 3. Now add 5 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$

3, 8,


The first term is 3. Now add 5 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$

3, 8, 13,



The first term is 3. Now add 5 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$

3, 8, 13, 18,



The first term is 3. Now add 5 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$

3, 8, 13, 18, 23,



The first term is 3. Now add 5 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$

3, 8, 13, 18, 23, 28,



The first term is 3. Now add 5 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$

3, 8, 13, 18, 23, 28, ...

The first term is 3. Now add 5 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$

The first term is 2.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2,

The first term is 2.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2,

The first term is 2.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2,

The first term is 2. Now add 3 recursively.


Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5,



The first term is 2. Now add 3 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8,



The first term is 2. Now add 3 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11,



The first term is 2. Now add 3 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14,



The first term is 2. Now add 3 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17,



The first term is 2. Now add 3 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...

The first term is 2. Now add 3 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18$; $d = -2$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18$; $d = -2$

The first term is 18.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18$; $d = -2$ 18,

The first term is 18.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18,

The first term is 18.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18,

The first term is 18. Now add -2 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16,



The first term is 18. Now add -2 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14,



The first term is 18. Now add -2 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12,



The first term is 18. Now add -2 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10,



The first term is 18. Now add -2 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8,



The first term is 18. Now add -2 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...

The first term is 18. Now add -2 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5 ; d = 0.2$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5$; $d = 0.2$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5 ; d = 0.2$

The first term is 5.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5 ; d = 0.2$ 5,

The first term is 5.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5$; $d = 0.2$ 5,

The first term is 5.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5 ; d = 0.2$ 5,

The first term is 5. Now add 0.2 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5$; $d = 0.2$ 5, 5.2,



The first term is 5. Now add 0.2 recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5$; $d = 0.2$ 5, 5.2, 5.4,



The first term is 5. Now add 0.2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6,



The first term is 5. Now add 0.2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5$; $d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8,



The first term is 5. Now add 0.2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5$; $d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6,



The first term is 5. Now add 0.2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5$; $d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

The first term is 5. Now add 0.2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5$; $d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula :

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : a_{n+1}

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : $a_{n+1} =$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : $a_{n+1} = a_n + d$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : $a_{n+1} = a_n + d$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : $a_{n+1} = a_n + d$

General Arithmetic Sequence:

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : $a_{n+1} = a_n + d$

General Arithmetic Sequence:

$a_1 ,$

Start with the first term.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5$; $d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : $a_{n+1} = a_n + d$

General Arithmetic Sequence:

a_1 ,

Start with the first term. Now add d recursively.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3$; $d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2$; $d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18$; $d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5$; $d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : $a_{n+1} = a_n + d$

General Arithmetic Sequence:

$a_1, a_1 + 1d,$

Start with the first term. Now add d recursively.

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...

2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...

3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...

4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : $a_{n+1} = a_n + d$

General Arithmetic Sequence:

$a_1, a_1 + 1d, a_1 + 2d,$



Start with the first term. Now add d recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Examples:

1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...
2. $a_1 = 2 ; d = 3$ 2, 5, 8, 11, 14, 17, ...
3. $a_1 = 18 ; d = -2$ 18, 16, 14, 12, 10, 8, ...
4. $a_1 = 5 ; d = 0.2$ 5, 5.2, 5.4, 5.6, 5.8, 6, ...

Recursive Formula : $a_{n+1} = a_n + d$

General Arithmetic Sequence:

$a_1, a_1 + 1d, a_1 + 2d, a_1 + 3d,$

Start with the first term. Now add d recursively.

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

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1. $a_1 = 3 ; d = 5$ 3, 8, 13, 18, 23, 28, ...
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Recursive Formula : $a_{n+1} = a_n + d$

General Arithmetic Sequence:

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Algebra 2 Class Worksheet #2 Unit 9

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a_1

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a_1

a_2

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a_2

a_3

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a_2

a_3

a_4

a_5

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a_1

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a_6

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a_3

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a_6

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Write the recursive and the explicit formulas for each of the following arithmetic sequences.

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The first term is 3.

Algebra 2 Class Worksheet #2 Unit 9

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Write the recursive and the explicit formulas for each of the following arithmetic sequences.

1. 3, 8, 13, 18, 23, ... $a_1 = 3, a_{n+1} = a_n + 5 ; a_n = 5n - 2$

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3. 18, 16, 14, 12, 10, ... $a_1 = 18, a_{n+1} = a_n - 2 ;$

$a_1 = 18$

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Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

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$a_1 = 18$ and $d = -2$

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The first term is 5.

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Explicit Formula : $a_n = a_1 + (n - 1)d$

Write the recursive and the explicit formulas for each of the following arithmetic sequences.

1. 3, 8, 13, 18, 23, ... $\underline{a_1 = 3, a_{n+1} = a_n + 5 ; a_n = 5n - 2}$

2. 2, 5, 8, 11, 14, ... $\underline{a_1 = 2, a_{n+1} = a_n + 3 ; a_n = 3n - 1}$

3. 18, 16, 14, 12, 10, ... $\underline{a_1 = 18, a_{n+1} = a_n - 2 ; a_n = -2n + 20}$

4. 5, 5.2, 5.4, 5.6, 5.8, ... $\underline{a_1 = 5, a_{n+1} = a_n + 0.2 ; a_n = 0.2n + 4.8}$

Algebra 2 Class Worksheet #2 Unit 9

Arithmetic Sequences : sequences in which there is a common difference, d , between consecutive terms

Recursive Formula : $a_{n+1} = a_n + d$

Explicit Formula : $a_n = a_1 + (n - 1)d$

Write the recursive and the explicit formulas for each of the following arithmetic sequences.

1. 3, 8, 13, 18, 23, ... $a_1 = 3, a_{n+1} = a_n + 5 ; a_n = 5n - 2$
2. 2, 5, 8, 11, 14, ... $a_1 = 2, a_{n+1} = a_n + 3 ; a_n = 3n - 1$
3. 18, 16, 14, 12, 10, ... $a_1 = 18, a_{n+1} = a_n - 2 ; a_n = -2n + 20$
4. 5, 5.2, 5.4, 5.6, 5.8, ... $a_1 = 5, a_{n+1} = a_n + 0.2 ; a_n = 0.2n + 4.8$

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Geometric Sequences :

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Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

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Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

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Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$

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Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$

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Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$

The first term is 3.

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Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$ 3,

The first term is 3.

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Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$ 3,

The first term is 3.

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Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$ 3,

The first term is 3. Now multiply by 2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$

3, 6,




The first term is 3. Now multiply by 2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$ 3, 6, 12,



The first term is 3. Now multiply by 2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$

3, 6, 12, 24,



The first term is 3. Now multiply by 2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$

3, 6, 12, 24, 48,



The first term is 3. Now multiply by 2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$

3, 6, 12, 24, 48, 96,



The first term is 3. Now multiply by 2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$ 3, 6, 12, 24, 48, 96, ...

The first term is 3. Now multiply by 2 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3$; $r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2$; $r = -5$

The first term is 2.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2,

The first term is 2.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2,

The first term is 2.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2,

The first term is 2. Now multiply by -5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10,



The first term is 2. Now multiply by -5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50,



The first term is 2. Now multiply by -5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250,



The first term is 2. Now multiply by -5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250,



The first term is 2. Now multiply by -5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250,



The first term is 2. Now multiply by -5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

The first term is 2. Now multiply by -5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$

The first term is 64.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64,

The first term is 64.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64,

The first term is 64.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64,

The first term is 64. Now multiply by 0.5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32,



The first term is 64. Now multiply by 0.5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16,



The first term is 64. Now multiply by 0.5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8,



The first term is 64. Now multiply by 0.5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4,



The first term is 64. Now multiply by 0.5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2,



The first term is 64. Now multiply by 0.5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

The first term is 64. Now multiply by 0.5 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$

The first term is 450.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450,

The first term is 450.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450,

The first term is 450.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450,

The first term is 450. Now multiply by 0.1 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms


Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45,



The first term is 450. Now multiply by 0.1 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5,



The first term is 450. Now multiply by 0.1 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45,



The first term is 450. Now multiply by 0.1 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045,

The first term is 450. Now multiply by 0.1 recursively.



Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045,

The first term is 450. Now multiply by 0.1 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045, ...

The first term is 450. Now multiply by 0.1 recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045, ...

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045, ...

Recursive Formula :

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045, ...

Recursive Formula : a_{n+1}

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045, ...

Recursive Formula : $a_{n+1} =$

Algebra 2 Class Worksheet #2 Unit 9

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Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045, ...

Recursive Formula : $a_{n+1} = r a_n$

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045, ...

Recursive Formula : $a_{n+1} = r a_n$

Algebra 2 Class Worksheet #2 Unit 9

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Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045, ...

Recursive Formula : $a_{n+1} = r a_n$

General Geometric Sequence:

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

4. $a_1 = 450 ; r = 0.1$ 450, 45, 4.5, 0.45, 0.045, 0.0045, ...

Recursive Formula : $a_{n+1} = r a_n$

General Geometric Sequence:

a_1 ,

Start with the first term.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

2. $a_1 = 2 ; r = -5$ 2, -10, 50, -250, 1250, -6250, ...

3. $a_1 = 64 ; r = 0.5$ 64, 32, 16, 8, 4, 2, ...

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Recursive Formula : $a_{n+1} = r a_n$

General Geometric Sequence:

a_1 ,

Start with the first term. Now multiply by r recursively.

Algebra 2 Class Worksheet #2 Unit 9

Geometric Sequences : sequences in which there is a common ratio, r , between consecutive terms

Examples:

1. $a_1 = 3 ; r = 2$ 3, 6, 12, 24, 48, 96, ...

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a_1 a_2 a_3

The diagram shows the general term of a geometric sequence: $a_1, a_1 r^1, a_1 r^2, a_1 r^3, a_1 r^4, a_1 r^5, \dots$. Below the first three terms, the labels a_1 , a_2 , and a_3 are placed. Red double-headed arrows connect a_1 to a_2 and a_2 to a_3 , illustrating the constant ratio between consecutive terms.

Take a closer look.

Algebra 2 Class Worksheet #2 Unit 9

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Write the recursive and the explicit formulas for each of the following geometric sequences.

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Write the recursive and the explicit formulas for each of the following geometric sequences.

1. 3, 6, 12, 24, 48, ...

$$a_1 = 3, a_{n+1} = 2a_n ;$$

Multiply by 2 recursively. $\Rightarrow r = 2$

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Recursive Formula : $a_{n+1} = r a_n$

Explicit Formula : $a_n = a_1 r^{(n-1)}$

Write the recursive and the explicit formulas for each of the following geometric sequences.

1. 3, 6, 12, 24, 48, ... $\underline{a_1 = 3, a_{n+1} = 2a_n ; a_n = 3(2)^{(n-1)}}$

2. 2, -10, 50, -250, 1250, ... $\underline{a_1 = 2, a_{n+1} = -5a_n ; a_n = 2(-5)^{(n-1)}}$

3. 64, 32, 16, 8, 4, ... $\underline{a_1 = 64, a_{n+1} = 0.5a_n ; a_n = 64(0.5)^{(n-1)}}$

4. 450, 45, 4.5, 0.45, 0.045, ... $\underline{a_1 = 450,}$

Multiply by 0.1 recursively. $\Rightarrow r = 0.1$

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