

Algebra II Class Worksheet #3 Unit 9 page 1

1. Find 4 arithmetic means between 7 and 22. _____

2. Find 5 arithmetic means between 10 and 25. _____

3. Find the arithmetic mean between 12 and 20. _____

4. Find 2 geometric means between 6 and 750. _____

5. Find 3 geometric means between 5 and 80. _____

6. Find the geometric mean of 7 and 700. _____

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Solve each of the following problems.

7. A particular job has a starting salary of \$38,000 per year with a guaranteed raise of \$1,200 per year. What will be the salary for the 6th year?

8. A particular job has a starting salary of \$38,000 per year with a guaranteed raise of 3% per year. What will be the salary for the 6th year?

9. A ball is dropped onto a concrete floor from a height of 70 inches. On each bounce, the ball rebounds to 60% of its previous height. How high will the ball bounce after it hits the floor for the 4th time?