# Algebra II <br> Lesson \#5 Unit 6 Class Worksheet \#5 <br> For Worksheet \#6 

## The Quadratic Formula

## The Quadratic Formula

Solving Second Degree Equations With 1 Variable

$$
A x^{2}+B x+C=0 \text { where } A \neq 0
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## The Quadratic Formula

## Solving Second Degree Equations With 1 Variable

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You have learned three different ways to solve second degree equations (also called quadratic equations) with one variable.

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You have learned three different ways to solve second degree equations (also called quadratic equations) with one variable. The first was the factoring method. This is a very effective way of solving these equations.

## The Quadratic Formula

## Solving Second Degree Equations With 1 Variable

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A x^{2}+\mathbf{B x}+\mathbf{C}=\mathbf{0} \text { where } \mathbf{A} \neq \mathbf{0}
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You have learned three different ways to solve second degree equations (also called quadratic equations) with one variable. The first was the factoring method. This is a very effective way of solving these equations. However, it only 'works' if the expression $\mathbf{A x}^{2}+\mathbf{B x}+\mathbf{C}$ is factorable.

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## The Quadratic Formula

The Quadratic Formula

$$
a x^{2}+b x+c=0
$$

$$
\begin{aligned}
& \text { The Quadratic Formula } \\
& a^{2} x^{2}+b x+c=0 \\
& \text { This is a quadratic equation } \\
& \text { written in standard form. }
\end{aligned}
$$

The Quadratic Formula
$a x^{2}+b x+c=0$
This is a quadratic equation
written in standard form. The
'complete the square' process
can be used to solve for $x$ in
terms of $a, b$, and $c$.

The Quadratic Formula

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a x^{2}+b x+c=0
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This is a quadratic equation written in standard form. The 'complete the square' process can be used to solve for $x$ in terms of $a, b$, and $c$.

The Quadratic Formula

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a x^{2}+b x+c=0
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This is a quadratic equation written in standard form. The 'complete the square' process can be used to solve for $x$ in terms of $a, b$, and $c$.

Step 1: Write the equation in the form $x^{2}+d x=f$.

The Quadratic Formula

$$
a x^{2}+b x+c=0
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This is a quadratic equation written in standard form. The 'complete the square' process can be used to solve for $x$ in terms of $a, b$, and $c$.

Subtract c from both sides.

Step 1: Write the equation in the form $x^{\mathbf{2}}+d x=f$.

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\begin{aligned}
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Subtract c from both sides.
Divide both sides by $\mathbf{a}$.

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\begin{aligned}
& a x^{2}+b x+c=0 \\
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& x^{2}+\frac{b}{a} x
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Step 2 : Complete the square. Write the equation in the form $(x+A)^{2}=k$.

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Step 2 : Complete the square. Write the equation in the form $(x+A)^{2}=k$.
Divide the coefficient of $x$ by 2 . (This is the value of $A$.)

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This is a quadratic equation written in standard form. The 'complete the square' process can be used to solve for $x$ in terms of $a, b$, and $c$.

$$
\mathbf{x}^{2}+2 \mathbf{A x}+\mathrm{A}^{2}=(\mathrm{x}+\mathbf{A})^{2}
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$$
\begin{gathered}
x^{2}+2 A x+A^{2}=(x+A)^{2} \\
2 A=\frac{b}{a}
\end{gathered}
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\begin{gathered}
\mathbf{x}^{2}+2 \mathbf{A} \mathbf{x}+\mathrm{A}^{2}=(\mathbf{x}+\mathbf{A})^{2} \\
2 \mathbf{A}=\frac{\mathbf{b}}{\mathbf{a}} \\
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\end{gathered}
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Step 2 : Complete the square. Write the equation in the form $(x+A)^{2}=k$.
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Square A. (This is the term that must be added to 'complete the square'.)

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2 \mathbf{A}=\frac{\mathbf{b}}{\mathbf{a}} \\
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\mathbf{A}^{2}=\frac{\mathbf{b}^{2}}{4 \mathbf{a}^{2}}
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\end{gathered}
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Add $\frac{b^{2}}{4 a^{2}}$ to both sides.

Step 2 : Complete the square. Write the equation in the form $(x+A)^{2}=k$.
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\mathbf{A}^{2}=\frac{\mathbf{b}^{2}}{4 \mathbf{a}^{2}}
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## Add $\frac{b^{2}}{4 a^{2}}$ to both sides.

Step 2 : Complete the square. Write the equation in the form $(x+A)^{2}=k$.
Divide the coefficient of $x$ by 2 . (This is the value of $A$.)
Square A. (This is the term that must be added to 'complete the square'.)
Write the trinomial in 'factored form'. $(\mathbf{x}+\mathbf{A})^{2}$

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\begin{gathered}
a x^{2}+b x+c=0 \\
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Step 3 : Apply the square root property. Write the equation in the form

$$
\mathbf{x}+\mathbf{A}= \pm \sqrt{\mathbf{k}}
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Step 4 : Solve for $x$. Write the equation in the form $x=-A \pm \sqrt{k}$.

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Step 5: Express the solutions in 'best from'.

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a x^{2}+b x=-c \\
x^{2}+\frac{b}{a} x=\frac{-c}{a} \\
x^{2}+\frac{b}{a} x+\frac{b^{2}}{4 a^{2}}=\frac{b^{2}}{4 a^{2}}+\frac{-c}{a} \\
\left(x+\frac{b}{2 a}\right)^{2}=\frac{b^{2}-4 a c}{4 a^{2}} \\
x+\frac{b}{2 a}= \pm \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}} \\
x=\frac{-b}{2 a} \pm \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{-b}{2 a} \pm
\end{gathered}
$$

This is a quadratic equation written in standard form. The 'complete the square' process can be used to solve for $x$ in terms of $a, b$, and $c$.

Step 5: Express the solutions in 'best from'.

## The Quadratic Formula

$$
\begin{gathered}
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\end{gathered}
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$$
\sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}
$$

Step 5: Express the solutions in 'best from'.

## The Quadratic Formula

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\begin{gathered}
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$\sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{\sqrt{b^{2}-4 a c}}{}$

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$$

## The Quadratic Formula

$$
\begin{array}{cc}
a x^{2}+b x+c=0 & \begin{array}{c}
\text { This is a quadratic equation } \\
\text { written in standard form. The }
\end{array} \\
\mathbf{x}^{2}+\frac{b}{a} x=\frac{-c}{a} & \begin{array}{l}
\text { complete the square' process } \\
\text { can be used to solve for } x \text { in } \\
\text { terms of } a, b, \text { and } c .
\end{array} \\
\mathbf{x}^{2}+\frac{b}{a} x+\frac{b^{2}}{4 a^{2}}=\frac{b^{2}}{4 a^{2}}+\frac{-c}{a} & \\
\left(x+\frac{b}{2 a}\right)^{2}=\frac{b^{2}-4 a c}{4 a^{2}} & \\
x+\frac{b}{2 a}= \pm \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}} & \\
x=\frac{-b}{2 a} \pm \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{-b}{2 a} \pm \frac{\sqrt{b^{2}-4 a c}}{} \quad \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{\sqrt{b^{2}-4 a c}}{\sqrt{4 a^{2}}}
\end{array}
$$

Step 5 : Express the solutions in 'best from'.

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x+\frac{b}{2 a}= \pm \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}} \\
x=\frac{-b}{2 a} \pm \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{-b}{2 a} \pm \frac{\sqrt{b^{2}-4 a c}}{2 a}
\end{gathered}
$$

This is a quadratic equation written in standard form. The 'complete the square' process can be used to solve for $x$ in terms of $a, b$, and $c$.

$$
\sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{\sqrt{b^{2}-4 a c}}{\sqrt{4 a^{2}}}
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## The Quadratic Formula

$$
\begin{array}{cc}
a x^{2}+b x+c=0 & \begin{array}{l}
\text { This is a quadratic equation } \\
\text { written in standard form. The }
\end{array} \\
\mathbf{a x ^ { 2 } + b x = - c} & \begin{array}{l}
x^{2}+\frac{b}{a} x=\frac{-c}{a} \\
\text { complete the square' process } \\
\text { terms of } a, b, \text { and } c .
\end{array} \\
x^{2}+\frac{b}{a} x+\frac{b^{2}}{4 a^{2}}=\frac{b^{2}}{4 a^{2}}+\frac{-c}{a} & \\
\left(x+\frac{b}{2 a}\right)^{2}=\frac{b^{2}-4 a c}{4 a^{2}} & \\
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x=\frac{-b}{2 a} \pm \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{-b}{2 a} \pm \frac{\sqrt{b^{2}-4 a c}}{2 a} & \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{\sqrt{b^{2}-4 a c}}{\sqrt{4 a^{2}}} \\
x= &
\end{array}
$$

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a x^{2}+b x+c=0 \\
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x=\frac{-b}{2 a} \pm \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{-b}{2 a} \pm \frac{\sqrt{b^{2}-4 a c}}{2 a} \\
x=\frac{2 a}{2 a}
\end{gathered}
$$

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\sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{\sqrt{b^{2}-4 a c}}{\sqrt{4 a^{2}}}
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x=\frac{-b}{2 a} \pm \sqrt{\frac{b^{2}-4 a c}{4 a^{2}}}=\frac{-b}{2 a} \pm \frac{\sqrt{b^{2}-4 a c}}{2 a} \\
x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
\end{gathered}
$$

This is a quadratic equation written in standard form. The 'complete the square' process can be used to solve for $x$ in terms of $a, b$, and $c$.

## The Quadratic Formula

$$
\text { If } \mathbf{a x} \mathbf{x}^{2}+\mathbf{b x}+\mathbf{c}=\mathbf{0}, \text { then }
$$

$$
x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
$$

## The Quadratic Formula

If $\mathbf{a x}^{2}+\mathbf{b x}+\mathbf{c}=\mathbf{0}$, then

$$
x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
$$

$$
\begin{aligned}
& \text { The Quadratic Formula } \\
& \text { If } \mathbf{a x}+\mathbf{b x}+\mathbf{c}=\mathbf{0} \text {, then } \\
& x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
\end{aligned}
$$

The quadratic formula can be used to solve any second degree equation.

## The Quadratic Formula

If $\mathbf{a x}+\mathbf{b x}+\mathbf{c}=\mathbf{0}$, then

$$
x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
$$

The quadratic formula can be used to solve any second degree equation. The purpose of the remainder of this lesson is to demonstrate how to use it.

## Algebra II Class Worksheet \#5 Unit 6

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

1. $x^{2}-3 x-5=0$

## Algebra II Class Worksheet \#5 Unit 6

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## Algebra II Class Worksheet \#5 Unit 6

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The Quadratic Formula
The Quadratic Formula
If $a^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

1. $x^{2}-3 x-5=0$

Step 1: Identify the values of $a, b$, and $c$.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 1. } a= \\
& a=
\end{aligned} x^{2}-3 x-5=0
$$

Step 1: Identify the values of $a, b$, and $c$.

$$
\begin{aligned}
& \text { The Quadratic Formula } \\
& \text { If } a x^{2}+b x+c=0 \text {, then } x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
\end{aligned}
$$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\text { 1. } a=x^{2}-3 x-5=0
$$

Step 1: Identify the values of $a, b$, and $c$.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\text { 1. } 1 x^{2}-3 x-5=0
$$

Step 1: Identify the values of $a, b$, and $c$.

## The Quadratic Formula <br> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 1. } 1 x^{2}-3 x-5=0 \\
& a=1
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.

## The Quadratic Formula <br> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 1. } x^{2}-3 x-5=0 \\
& a=1
\end{aligned}
$$

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> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

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Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 1. } \quad x^{2}-3 x-5=0 \\
& a=1 \quad b=
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.

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> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

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Solve each of the following using the quadratic formula.

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> If $\mathbf{a x}{ }^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 1. } \quad x^{2}-3 x-5=0 \\
& a=1 \quad b=-3
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.

> The Quadratic Formula
> If $\mathbf{a x}{ }^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

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\begin{aligned}
& \text { 1. } \quad x^{2}-3 x-5=0 \\
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Step 1: Identify the values of $a, b$, and $c$.

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> If $\mathbf{a x}+\mathbf{b x}+\mathbf{c}=\mathbf{0}$, then $\mathbf{x}=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

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Solve each of the following using the quadratic formula.

$$
\text { 1. } \begin{aligned}
x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.

> The Quadratic Formula
> If $\mathbf{a x}^{2}+\mathbf{b x}+\mathbf{c}=\mathbf{0}$, then $\mathrm{x}=\frac{-\mathrm{b} \pm \sqrt{\mathbf{b}^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\text { 1. } \begin{aligned}
x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.

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> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

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Solve each of the following using the quadratic formula.

$$
\text { 1. } \begin{aligned}
x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =-5
\end{aligned}
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x^{2}-3 x-5 & =0 \\
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$$

Step 1: Identify the values of $a, b$, and $c$.

$$
\begin{aligned}
& \text { The Quadratic Formula } \\
& \text { If } a x^{2}+b x+c=0 \text {, then } x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
\end{aligned}
$$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\text { 1. } \begin{aligned}
x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =-5
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
Step 2 : Substitute the value of $a, b$, and $c$ into the quadratic formula.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

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Solve each of the following using the quadratic formula.

$$
\text { 1. } \begin{aligned}
x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =-5
\end{aligned}
$$

$$
\mathbf{x}=
$$

Step 1: Identify the values of $a, b$, and $c$.
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Solve each of the following using the quadratic formula.

$$
\text { 1. } \begin{aligned}
x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =-5
\end{aligned}
$$

$$
\mathbf{x}=
$$

Step 1: Identify the values of $a, b$, and $c$.
Step 2 : Substitute the value of $a, b$, and $c$ into the quadratic formula.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
\text { 1. } \begin{aligned}
x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =-5
\end{aligned} \\
x=\xrightarrow{3}
\end{aligned}
$$

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\begin{aligned}
\text { 1. } \begin{aligned}
x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =-5
\end{aligned} \\
x=\frac{3 \pm}{}
\end{aligned}
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\end{aligned} \\
x=\frac{3 \pm \sqrt{ }}{x}
\end{aligned}
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\begin{aligned}
\text { 1. } \begin{aligned}
x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =-5
\end{aligned} \\
x=\frac{3 \pm \sqrt{9}}{l}
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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$$
\begin{aligned}
& \text { 1. } x^{2}-3 x-5=0 \\
& a=1 \quad b=-3 \quad c=-5 \\
& x=\frac{3 \pm \sqrt{9-(4)(1)(-5)}}{}
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 1. } x^{2}-3 x-5=0 \\
& \begin{array}{lll}
a=1 \quad b=-3 & c=-5
\end{array} \\
& x=\frac{3 \pm \sqrt{9-(4)(1)(-5)}}{2}
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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& x=\frac{3 \pm \sqrt{9-(4)(1)(-5)}}{2}
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\text { 1. } x^{2}-3 x-5 & =0 \\
a=1 \quad b=-3 \quad c & =-5 \\
x=\frac{3 \pm \sqrt{9-(4)(1)(-5)}}{2} & =\frac{3 \pm \sqrt{29}}{}
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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a=1 \quad b=-3 \quad c & =-5 \\
x=\frac{3 \pm \sqrt{9-(4)(1)(-5)}}{2} & =\frac{3 \pm \sqrt{29}}{2}
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
Step 2 : Substitute the value of $a, b$, and $c$ into the quadratic formula. Step 3 : Evaluate the discriminant: $\mathrm{b}^{\mathbf{2}}$ - 4ac.

$$
\begin{aligned}
& \text { The Quadratic Formula } \\
& \text { If } a x^{2}+b x+c=0 \text {, then } x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
\end{aligned}
$$

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x=\frac{3 \pm \sqrt{9-(4)(1)(-5)}}{2} & =\frac{3 \pm \sqrt{29}}{2}
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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Step 3 : Evaluate the discriminant: $b^{2}-4 a c$.
Step 4 : Express the solutions in 'best from'.

$$
\begin{aligned}
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a=1 \quad b=-3 \quad c & =-5 \\
x=\frac{3 \pm \sqrt{9-(4)(1)(-5)}}{2} & =\frac{3 \pm \sqrt{29}}{2}
\end{aligned}
$$

$$
\mathbf{x}=
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{gathered}
\text { 1. } x^{2}-3 x-5=0 \\
a=1 \quad b=-3 \quad c=-5 \\
x=\frac{3 \pm \sqrt{9-(4)(1)(-5)}}{2}=\frac{3 \pm \sqrt{29}}{2} \\
x=\frac{3+\sqrt{29}}{2}
\end{gathered}
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{gathered}
\text { 1. } x^{2}-3 x-5=0 \\
a=1 \quad b=-3 \quad c=-5 \\
x=\frac{3 \pm \sqrt{9-(4)(1)(-5)}}{2}=\frac{3 \pm \sqrt{29}}{2} \\
x=\frac{3+\sqrt{29}}{2} \approx 4.19
\end{gathered}
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Step 1: Identify the values of $a, b$, and $c$.
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\begin{aligned}
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\end{gathered}
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a=1 \quad b=-3 \quad c=-5 \\
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x=\frac{3+\sqrt{29}}{2} \approx 4.19 \text { or } x=\frac{3-\sqrt{29}}{2}
\end{gathered}
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\end{aligned}
$$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\text { 2. } x^{2}-5 x+6=0
$$

Step 1: Identify the values of $a, b$, and $c$.
Step 2 : Substitute the value of $a, b$, and $c$ into the quadratic formula.
Step 3 : Evaluate the discriminant: $b^{2}-4 a c$.
Step 4 : Express the solutions in 'best from'.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

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\text { 2. } x^{2}-5 x+6=0
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\text { 2. } a=x^{2}-5 x+6=0
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\text { 2. } 1 x^{2}-5 x+6=0
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Step 1: Identify the values of $a, b$, and $c$.
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\begin{aligned}
& \text { 2. } 1 x^{2}-5 x+6=0 \\
& a=1
\end{aligned}
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\text { 2. } \begin{array}{r}
x^{2}-5 x+6=0 \\
a=1 \quad b=-5 \quad c=6
\end{array} \\
x=\xrightarrow[5 \pm]{ } \quad
\end{array}
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Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 2. } x^{2}-5 x+6=0 \\
& a=1 \quad b=-5 \quad c=6 \\
& x=\frac{5 \pm \sqrt{25}}{}
\end{aligned}
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Step 1: Identify the values of $a, b$, and $c$.
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\end{array} \\
x=\frac{5 \pm \sqrt{25-(4)(1)(6)}}{2}
\end{array}
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{array}{r}
\text { 2. } \begin{array}{r}
x^{2}-5 x+6=0 \\
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& x=\frac{5+1}{2}
\end{aligned} \\
& x=1
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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\end{aligned}
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& x=
\end{aligned}
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& x=\frac{5 \pm \sqrt{25-(4)(1)(6)}}{2}=\frac{5 \pm \sqrt{1}}{2}=\frac{5 \pm 1}{2} \\
& x=\frac{5+1}{2} \text { or } x=\frac{5-1}{2} \\
& x=3
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
Step 2: Substitute the value of $a, b$, and $c$ into the quadratic formula.
Step 3 : Evaluate the discriminant: $\mathbf{b}^{2}-4 a c$.
Step 4 : Express the solutions in 'best from'.

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x=3 \text { or } x=
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& x=3 \text { or } x=2
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Step 1: Identify the values of $\mathrm{a}, \mathrm{b}$, and c .
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 2. } \begin{array}{c}
x^{2}-5 x+6=0 \\
a=1 \quad b=-5 \quad c=6 \\
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x=\frac{5+1}{2} \text { or } x=\frac{5-1}{2} \\
x=3 \text { or } x=2
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Step 1: Identify the values of $a, b$, and $c$.
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\end{aligned}
$$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.
3. $x^{2}+4 x+6=0$

Step 1: Identify the values of $a, b$, and $c$.
Step 2 : Substitute the value of $a, b$, and $c$ into the quadratic formula.
Step 3 : Evaluate the discriminant: $b^{2}-4 a c$.
Step 4 : Express the solutions in 'best from'.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.
3. $\mathbf{x}^{2}+4 x+6=0$

Step 1: Identify the values of $a, b$, and $c$.
Step 2 : Substitute the value of $a, b$, and $c$ into the quadratic formula.
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Step 4 : Express the solutions in 'best from'.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.
3. $\mathbf{x}^{2}+4 x+6=0$

Step 1: Identify the values of $a, b$, and $c$.
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\begin{aligned}
& \text { The Quadratic Formula } \\
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\end{aligned}
$$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 3. } x^{2}+4 x+6=0 \\
& a=
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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\begin{aligned}
& \text { 3. } x^{2}+4 x+6=0 \\
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 3. } 1 x^{2}+4 x+6=0 \\
& a=
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
Step 2: Substitute the value of $a, b$, and $c$ into the quadratic formula.
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

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\begin{aligned}
& \text { 3. } 1 x^{2}+4 x+6=0 \\
& a=1
\end{aligned}
$$

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\begin{array}{r}
\text { 3. } \quad x^{2}+4 x+6=0 \\
\\
x=1 \quad b=4 \quad c=6 \\
-4 \\
\end{array}
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Solve each of the following using the quadratic formula.

$$
\begin{array}{r}
\text { 3. } \quad x^{2}+4 x+6=0 \\
a=1 \quad b=4 \quad c=6 \\
x=\xrightarrow{-4 \pm}
\end{array}
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x^{2}+4 x+6=0 \\
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\end{array} \\
-4 \pm \sqrt{-4}
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{array}{r}
\text { 3. } x^{2}+4 x+6=0 \\
a=1 \quad b=4 \quad c=6 \\
x=\frac{-4 \pm \sqrt{16}}{}
\end{array}
$$

Step 1: Identify the values of $a, b$, and $c$.
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\text { 3. } x^{2}+4 x+6=0 \\
a=1 \quad b=4 \quad c=6 \\
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\begin{array}{r}
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## Algebra II Class Worksheet \#5 Unit 6

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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.
4. $x^{2}+6 x+9=0$

Step 1: Identify the values of $a, b$, and $c$.
Step 2 : Substitute the value of $a, b$, and $c$ into the quadratic formula.
Step 3 : Evaluate the discriminant: $b^{2}-4 a c$.
Step 4 : Express the solutions in 'best from'.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.
4. $x^{2}+6 x+9=0$

Step 1: Identify the values of $a, b$, and $c$.
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Step 3 : Evaluate the discriminant: $\mathbf{b}^{2}-4 a c$.
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> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.
4. $x^{2}+6 x+9=0$

Step 1: Identify the values of $a, b$, and $c$.
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\end{aligned}
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 4. } x^{2}+6 x+9=0 \\
& a=
\end{aligned}
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Step 1: Identify the values of $a, b$, and $c$.
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 4. } x^{2}+6 x+9=0 \\
& a=
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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Step 4 : Express the solutions in 'best from'.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

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\begin{aligned}
& \text { 4. } 1 x^{2}+6 x+9=0 \\
& a=
\end{aligned}
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& a=1
\end{aligned}
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& \\
& x=1 \quad b=6 \quad c=9 \\
& -6 \\
&
\end{aligned}
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Step 1: Identify the values of $a, b$, and $c$.
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 4. } x^{2}+6 x+9=0 \\
& a=1 \quad b=6 \quad c=9 \\
& x=-
\end{aligned}
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Solve each of the following using the quadratic formula.

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& \text { 4. } \begin{array}{l}
x^{2}+6 x+9=0 \\
a=1 \quad b=6 \quad c=9 \\
x=
\end{array} \\
& -6 \pm \sqrt{-6 \pm}
\end{aligned}
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$$
\begin{aligned}
& \text { 4. } x^{2}+6 x+9=0 \\
& a=1 \quad b=6 \quad c=9 \\
& x=\frac{-6 \pm \sqrt{36}}{}
\end{aligned}
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Solve each of the following using the quadratic formula.

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\end{aligned}
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$$
x=\frac{-2}{}
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\begin{aligned}
& \text { The Quadratic Formula } \\
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## Algebra II Class Worksheet \#5 Unit 6

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& x=\frac{-1+\sqrt{10}}{3} \approx 0.72
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

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\begin{aligned}
& \text { 5. } 3 x^{2}+2 x-3=0 \\
& a=3 \quad b=2 \quad c=-3 \\
& x=\frac{-2 \pm \sqrt{4-(4)(3)(-3)}}{6}=\frac{-2 \pm \sqrt{40}}{6}=\frac{-2 \pm 2 \sqrt{10}}{6} \\
& x=\frac{-1+\sqrt{10}}{3} \approx 0.72 \text { or }
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Solve each of the following using the quadratic formula.
6. $\mathbf{6} \mathbf{x}^{2}-\mathbf{x}-\mathbf{1}=\mathbf{0}$

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> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

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\end{array} \\
& 1
\end{aligned}
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a=6 \quad b=-1 \quad c=-1 \\
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Step 1: Identify the values of $a, b$, and $c$.
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Step 3 : Evaluate the discriminant: $\mathbf{b}^{2}$ - 4ac.
Step 4 : Express the solutions in 'best from'.

$$
\begin{aligned}
& \text { The Quadratic Formula } \\
& \text { If } a x^{2}+b x+c=0 \text {, then } x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
\end{aligned}
$$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{gathered}
\text { 6. } \quad 6 x^{2}-x-1=0 \\
a=6 \quad b=-1 \quad c=-1 \\
x=\frac{1 \pm \sqrt{1-(4)(6)(-1)}}{12}=\frac{1 \pm \sqrt{25}}{12}=\frac{1 \pm 5}{12} \\
x=\frac{1+5}{12} \text { or } x=\frac{1-5}{12} \\
x=\frac{1}{2} \text { or } x=\frac{-1}{3}
\end{gathered}
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{gathered}
\text { 6. } \quad 6 x^{2}-x-1=0 \\
a=6 \quad b=-1 \quad c=-1 \\
x=\frac{1 \pm \sqrt{1-(4)(6)(-1)}}{12}=\frac{1 \pm \sqrt{25}}{12}=\frac{1 \pm 5}{12} \\
x=\frac{1+5}{12} \text { or } x=\frac{1-5}{12} \\
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## Algebra II Class Worksheet \#5 Unit 6

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\begin{gathered}
\text { 6. } 6 x^{2}-x-1=0 \\
a=6 \quad b=-1 \quad c=-1 \\
x=\frac{1 \pm \sqrt{1-(4)(6)(-1)}}{12}=\frac{1 \pm \sqrt{25}}{12}=\frac{1 \pm 5}{12} \\
x=\frac{1+5}{12} \quad \text { or } x=\frac{1-5}{12} \\
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Solve each of the following using the quadratic formula.

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\text { 7. } 3 x^{2}+2 x+2=0
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Solve each of the following using the quadratic formula.

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\begin{aligned}
& \text { 7. } \quad 3 x^{2}+2 x+2=0 \\
& a=3
\end{aligned}
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Step 1: Identify the values of $a, b$, and $c$.
Step 2: Substitute the value of $a, b$, and $c$ into the quadratic formula.
Step 3 : Evaluate the discriminant: $b^{2}-4 a c$.
Step 4 : Express the solutions in 'best from'.

$$
\begin{aligned}
& \text { The Quadratic Formula } \\
& \text { If } a x^{2}+b x+c=0 \text {, then } x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
\end{aligned}
$$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{gathered}
\text { 7. } 3 x^{2}+2 x+2=0 \\
a=3 \quad b=2 c=2 \\
x=\frac{-2 \pm \sqrt{4-(4)(3)(2)}}{6}=\frac{-2 \pm \sqrt{-20}}{6} \\
x=\frac{-2 \pm 2 \sqrt{5} i}{6}=\frac{-1 \pm \sqrt{5} i}{3} \\
x=\frac{-1}{3}+\frac{\sqrt{5}}{3} i \text { or } x=\frac{-1}{3}-\frac{\sqrt{5}}{3} i
\end{gathered}
$$

Step 1: Identify the values of $a, b$, and $c$.
Step 2: Substitute the value of $a, b$, and $c$ into the quadratic formula.
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\begin{aligned}
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.
8. $9 x^{2}-12 x+4=0$

Step 1: Identify the values of $a, b$, and $c$.
Step 2 : Substitute the value of $a, b$, and $c$ into the quadratic formula.
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Step 4 : Express the solutions in 'best from'.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Algebra II Class Worksheet \#5 Unit 6

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Step 1: Identify the values of $a, b$, and $c$.
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Step 4 : Express the solutions in 'best from'.

> The Quadratic Formula
> If $a x^{2}+b x+c=0$, then $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

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\end{aligned}
$$

## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 8. } 9 x^{2}-12 x+4=0 \\
& a=
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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## Algebra II Class Worksheet \#5 Unit 6

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\begin{aligned}
& \text { 8. } 9 x^{2}-12 x+4=0 \\
& a=
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 8. } \quad 9 x^{2}-12 x+4=0 \\
& a=9
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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\begin{aligned}
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\end{aligned}
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& \text { 8. } \quad 9 x^{2}-12 x+4=0 \\
& a=9 \quad b=
\end{aligned}
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$\mathbf{x}=$

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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \begin{array}{l}
\text { 8. } \quad 9 x^{2}-12 x+4=0 \\
a=9 \quad b=-12 \quad c=4
\end{array} \\
& x=\xrightarrow{12 \pm}
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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\end{aligned}
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 8. } \begin{array}{c}
9 x^{2}-12 x+4=0 \\
a=9 \quad b=-12 \quad c=4
\end{array} \\
& x=\xlongequal{12 \pm \sqrt{\square}}
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

$$
\begin{aligned}
& \text { 8. } \begin{array}{c}
9 x^{2}-12 x+4=0 \\
a=9 \quad b=-12 \quad c=4
\end{array} \\
& x=\xlongequal{12 \pm \sqrt{144}}
\end{aligned}
$$

Step 1: Identify the values of $a, b$, and $c$.
Step 2 : Substitute the value of $a, b$, and $c$ into the quadratic formula.
Step 3 : Evaluate the discriminant: $b^{2}-4 a c$.
Step 4 : Express the solutions in 'best from'.

$$
\begin{aligned}
& \text { The Quadratic Formula } \\
& \text { If } \mathbf{a x}^{2}+\mathbf{b x}+\mathbf{c}=\mathbf{0} \text {, then } \mathbf{x}=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
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## Algebra II Class Worksheet \#5 Unit 6

Solve each of the following using the quadratic formula.

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\begin{aligned}
& \text { 8. } \begin{array}{c}
9 x^{2}-12 x+4=0 \\
a=9 \quad b=-12 \quad c=4
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Solve each of the following using the quadratic formula.

$$
\begin{gathered}
\text { 8. } \quad 9 x^{2}-12 x+4=0 \\
a=9 \quad b=-12 \quad c=4 \\
x=\frac{12 \pm \sqrt{144-(4)(9)(4)}}{}
\end{gathered}
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