

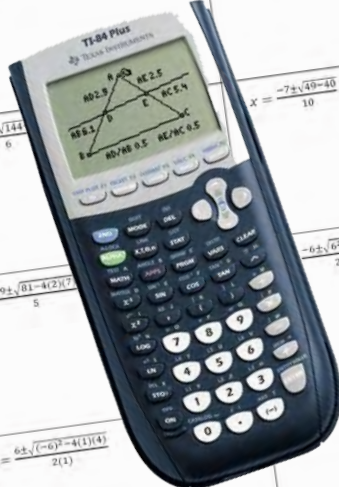
FREEBIE!

QUADRATIC FUNCTIONS

Name _____

Simplify the following expressions. (Show all work.)

1. $x = \frac{7 \pm \sqrt{36}}{2}$	2. $x = \frac{-2 \pm \sqrt{16}}{4}$
3. $x = \frac{4 \pm \sqrt{48}}{6}$	4. $x = \frac{4 \pm \sqrt{32}}{8}$
5. $x = \frac{-12 \pm \sqrt{144}}{6}$	$x = \frac{-7 \pm \sqrt{49-40}}{10}$
7. $x = \frac{-0.2 \pm \sqrt{0.1-4(2)(7)}}{5}$	$\frac{-6 \pm \sqrt{6^2-4(2)(3)}}{2(2)}$
9. $x = \frac{6 \pm \sqrt{(-6)^2-4(1)(4)}}{2(1)}$	$\frac{\pm \sqrt{(-11)^2-4(3)(10)}}{2(3)}$



QUADRATIC FORMULA

Calculator Practice

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QUADRATIC FORMULA CALCULATOR PRACTICE

The Quadratic Formula Calculator Practice worksheet is an introductory practice to help students simplify expressions in the format of the quadratic formula. Exact answers are shown on the answer key, but it is helpful for students to find the decimal approximations as well.

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QUADRATIC FUNCTIONS

Name _____

Simplify the following expressions. (Show all work.)

1. $x = \frac{7 \pm \sqrt{36}}{2}$	2. $x = \frac{-2 \pm \sqrt{16}}{4}$
3. $x = \frac{4 \pm \sqrt{48}}{6}$	4. $x = \frac{4 \pm \sqrt{32}}{8}$
5. $x = \frac{-12 \pm \sqrt{144 - 48}}{6}$	6. $x = \frac{-7 \pm \sqrt{49 - 40}}{10}$
7. $x = \frac{-9 \pm \sqrt{81 - 4(2)(7)}}{5}$	8. $x = \frac{-6 \pm \sqrt{6^2 - 4(2)(3)}}{2(2)}$
9. $x = \frac{6 \pm \sqrt{(-6)^2 - 4(1)(4)}}{2(1)}$	10. $x = \frac{11 \pm \sqrt{(-11)^2 - 4(3)(10)}}{2(3)}$

QUADRATIC FUNCTIONS

KEY

Simplify the following expressions. (Show all work.)

<p>1. $x = \frac{7 \pm \sqrt{36}}{2}$</p> <p>$\left\{ \frac{13}{2}, \frac{1}{2} \right\}$</p>	<p>2. $x = \frac{-2 \pm \sqrt{16}}{4}$</p> <p>$\left\{ \frac{1}{2}, -\frac{3}{2} \right\}$</p>
<p>3. $x = \frac{4 \pm \sqrt{48}}{6}$</p> <p>$\left\{ \frac{-2 + 2\sqrt{3}}{3}, \frac{-2 - 2\sqrt{3}}{3} \right\}$</p>	<p>4. $x = \frac{4 \pm \sqrt{32}}{8}$</p> <p>$\left\{ \frac{1 + \sqrt{2}}{2}, \frac{1 - \sqrt{2}}{2} \right\}$</p>
<p>5. $x = \frac{-12 \pm \sqrt{144 - 48}}{6}$</p> <p>$\left\{ \frac{-6 + 2\sqrt{6}}{3}, \frac{-6 - 2\sqrt{6}}{3} \right\}$</p>	<p>6. $x = \frac{-7 \pm \sqrt{49 - 40}}{10}$</p> <p>$\left\{ \frac{-2}{5}, -1 \right\}$</p>
<p>7. $x = \frac{-9 \pm \sqrt{81 - 4(2)(7)}}{5}$</p> <p>$\left\{ \frac{-14}{5}, \frac{-4}{5} \right\}$</p>	<p>8. $x = \frac{-6 \pm \sqrt{6^2 - 4(2)(3)}}{2(2)}$</p> <p>$\left\{ \frac{-3 + \sqrt{3}}{2}, \frac{-3 - \sqrt{3}}{2} \right\}$</p>
<p>9. $x = \frac{6 \pm \sqrt{(-6)^2 - 4(1)(4)}}{2(1)}$</p> <p>$\{3 + \sqrt{5}, 3 - \sqrt{5}\}$</p>	<p>10. $x = \frac{11 \pm \sqrt{(-11)^2 - 4(3)(10)}}{2(3)}$</p> <p>$2, \frac{5}{3}$</p>

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