What questions do you have on your "Solving Quadratics by Taking Square Roots" worksheet?

(5) $\frac{7n^2}{7} = \frac{-343}{7}$

$\sqrt{n^2} = \sqrt{-49}$

$n = \pm i\sqrt{49}$

$n = \pm 7i$

PEMDAS

Here is the quadratic formula. Solving quadratics using this formula works for ANY quadratic! Make sure your quadratic is equal to 0 before you begin.

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

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From your worksheet.

Solve each equation with the quadratic formula.

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

1) $9n^2 - n - 16 = 0$

$a = 9$, $b = -1$, $c = -16$

$$X = \frac{-(-1) \pm \sqrt{(-1)^2 - 4 \cdot 9 \cdot -16}}{2 \cdot 9} = \frac{1 \pm \sqrt{577}}{18}$$

$$\left\{ \frac{1+\sqrt{577}}{18}, \frac{1-\sqrt{577}}{18} \right\} \text{ OR}$$

Solve each equation with the quadratic formula.

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

11) $-4n^2 - 5 = 8n$

$-8n \quad -8n$

$-4n^2 - 8n - 5 = 0$

$a = -4$, $b = -8$, $c = -5$

$$X = \frac{-(-8) \pm \sqrt{(-8)^2 - 4 \cdot -4 \cdot -5}}{2 \cdot -4} =$$

$$= \frac{8 \pm \sqrt{-16}}{-8} = \frac{8 \pm i\sqrt{16}}{-8} = \frac{8 \pm 4i}{-8} \quad (2,\ 1,\ -2)$$

$$= \frac{2 \pm i}{-2} \text{ OR } \left\{ \frac{2+i}{-2}, \frac{2-i}{-2} \right\}$$

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Homework

Solving Quadratics with the Quadratic Formula WKS

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