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

(8)
$$P^{2} + 10 = -10$$

 $P^{2} = F = 151 \cdot 120$
 $P = \pm i \cdot 120$

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.

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

From your worksheet.

Solve each equation with the quadratic formula.

$$\begin{array}{c}
0 = 9 \\
6 = -16 \\
2a
\end{array}$$

$$X = -b \pm \sqrt{b^2 - 4ac}$$

$$2a$$

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

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

$$2 \cdot 9$$

$$X = 1 \pm \sqrt{577} \text{ or } \begin{cases} 1 + \sqrt{577} \\ 18 \end{cases}$$

$$X = \frac{1 \pm \sqrt{577}}{18} \text{ or } \begin{cases} 1 + \sqrt{577} \\ 18 \end{cases}$$

Solve each equation with the quadratic formula.

$$b = -8 \\
c = -5$$
11) $-4n^2 - 5 = 8h$

$$-8n - 8n$$

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

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

$$X = 8 \pm \sqrt{-16} = 28 \pm 4i = 2 \pm i$$

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Homework

Solving Quadratics with the Quadratic Formula WKS