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

worksheet?

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.

$$\begin{array}{c}
0 = 9 \\
5 = -1 \\
C = -16 \\
1) 9n^{2} - \ln - 16 = 0 \\
\chi = -(-1) \pm \sqrt{(-1)^{2} - 4 \cdot 9 \cdot -16} = 1 \pm \sqrt{577} \\
3 \cdot 9 = 1 \pm \sqrt{577} \\
\frac{1 + \sqrt{577}}{18}, \frac{1 - \sqrt{577}}{18}
\end{array}$$

Solve each equation with the quadratic formula.

11)
$$-4n^{2} - 5 = 8n$$
 $-8n - 8n$
 $-4n^{2} - 8n - 5 = 0$
 $a = -4$
 $b = -8$
 $c = -5$

$$= -8 \pm \sqrt{-16} = 8 \pm i \pm 6$$

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 $= -8 \pm \sqrt{-16} = 8$
 $= -8 \pm$

Homework

Solving Quadratics with the Quadratic Formula WKS