Completing the Square Warm Up

Solve each quadratic equation by completing the square. Round to the nearest 100^{th} !

1.
$$x^{2} + 8x + 1 = 0$$

 $-1 - 1$
 $x^{2} + 8x + \underline{\hspace{1cm}} = -1 + \underline{\hspace{1cm}}$
 $(x)^{2} = \underline{\hspace{1cm}}$

$$x = \underline{\qquad} \pm \sqrt{\underline{\qquad}}$$

$$2. x^2 - 12x - 28 = 0$$

$$+28 + 28$$

$$x^2 - 12x + \underline{\hspace{1cm}} = 28 + \underline{\hspace{1cm}}$$

$$(x)^2 = \underline{\hspace{1cm}}$$

$$x = \underline{\qquad \pm \sqrt{\qquad}}$$

Algebra 1: 12.7
Completing the Square Warm Up

Name ______ Period _____

Solve each quadratic equation by completing the square. Round to the nearest 100th!

1.
$$x^2 + 8x + 1 = 0$$

$$\begin{array}{rcl}
-1 & -1 \\
x^2 + 8x + & = -1 +
\end{array}$$

$$(x)^2 =$$

$$=\pm\sqrt{}$$

$$x = \underline{\qquad} \pm \sqrt{\underline{\qquad}}$$

2.
$$x^2 - 12x - 28 = 0$$

$$+28 + 28$$

$$x^2 - 12x + \qquad = 28 +$$

$$(x)^2 = \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}} = \pm \sqrt{\hspace{1cm}}$$

$$x = \underline{\qquad} \pm \sqrt{\underline{\qquad}}$$