Find the EXACT solutions to this equation:

$$(x + 5)^{2} + 1 = 37$$

$$-(-1)^{2}$$

$$(x + 5)^{2} - 1 = 36$$

$$(x + 5)^{2} - 1 = 36$$

$$x + 5 = \pm 6 \Rightarrow x + 5 = 6$$

$$x + 5 = -6 \Rightarrow x = -1$$

$$x + 5 = -6 \Rightarrow x = -1$$

Find the EXACT solutions to this equation:

$$(x-6)^2 - 14 = 3$$

 $+14 + 14$
 $(x-6)^2 = (7)$
 $x-6 = \pm (7)$
 $x= \pm (7)$
 $x= \pm (7)$
 $x= \pm (7)$
 $x= \pm (7)$

Find the EXACT solutions to this equation:

$$2(x + 1)^{2} + 3 = 51$$

$$-3 - 3$$

$$2(x+1)^{2} = 48$$

$$(x+1)^{2} = 129$$

$$x+1 = \pm 216$$

$$x+1 = \pm 216$$

Find the EXACT solutions to this equation:

$$(2x-1)^{2} + 83 = 132$$

$$-83 - 83$$

$$(2x-1)^{2} - (49)$$

$$2x-1 = \pm 7$$

$$x = -3, 4$$

$$x = -3, 4$$

Standard Form of a Quadratic Function:

$$y = ax^2 + bx + c$$

Standard Form of a Quadratic Equation:

$$0 = ax^2 + bx + c$$