Algebra RH

Answer Key

HW #_____

1.
$$y = x^2 - 2x - 3$$

 $x = \frac{-b}{2a} = \frac{-(-2)}{2(1)} = 1$
 $x = \frac{-b}{2a} = \frac{-2}{2(1)} = -1$
 $x = \frac{-b}{2a} = \frac{-2}{2(1)} = -1$
 $x = \frac{-b}{2a} = \frac{-4}{2(1)} = -2$
 $x = \frac{-2}{2a} = \frac{-4}{2a} =$

6. $y = x^2 - 4x + 7$ 4. $y = x^2 - 5x + 4$ 5. $y = 2x^2 - 4$ $0 = x^2 - 4x + 7$ $0 = x^2 - 5x + 4$ $0 = 2x^2 - 4$ $4 = 2x^{2}$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ 0 = (x - 1)(x - 4)x - 1 = 0 x - 4 = 0 $2 = x^2$ $x = \frac{4 \pm \sqrt{(-4)^2 - 4(1)(7)}}{2(1)}$ x = 1 x = 4 $x = \pm \sqrt{2}$ $x = \frac{4 \pm \sqrt{-12}}{2}$ $x = \sqrt{2}$ or $-\sqrt{2}$ **Roots:** {1, 4}

Roots: {1.4, -1.4}

You cannot take the square root of a negative number. What does this mean? The related graph does not have any real roots, meaning, there are no *x*-intercepts.