Name:

Quadratics-Completing The Square-Common Core QuizVersion 3

(1) What are the solutions to the equation $x^2 - 14x = 11$?

(1) $x = -7 \pm 1\sqrt{38}$
(2) $x = -7 \pm 2\sqrt{15}$
(3) $x = 7 \pm 1\sqrt{38}$
(4) $x = 7 \pm 2\sqrt{15}$

(2) Which equation has the same solution as $x^2 - 10x + 14 = 0$

(1) $(x + 5)^2 = 11$
(2) $(x - 5)^2 = 39$
(3) $(x + 5)^2 = 39$
(4) $(x - 5)^2 = 11$

(3) The method of completing the square was used to solve the equation $4x^2 + 8x - 52 = 0$. Which equation is a correct step when using this method?

(1) $(x - 1)^2 = -53$
(2) $(x - 1)^2 = -14$
(3) $(x + 1)^2 = 53$
(4) $(x + 1)^2 = 14$

(4) When directed to solve a quadratic equation by completing the square, Sam arrived at the equation $(x + \frac{7}{2})^2 = \frac{69}{4}$. Which equation could have been the original equation given to Sam?

(1) $x^2 + 7x + 13 = 0$
(2) $x^2 - 7x + 13 = 0$
(3) $x^2 - 7x - 5 = 0$
(4) $x^2 + 7x - 5 = 0$