Name:

Quadratics-Completing The Square-Common Core QuizVersion 2 Date:

(1) What are the solutions to the equation $x^2 - 8x = -11$?

(1) $x = -4 \pm 3\sqrt{3}$
(2) $x = 4 \pm -\sqrt{5}$
(3) $x = 4 \pm 3\sqrt{3}$
(4) $x = -4 \pm -\sqrt{5}$

(2) Which equation has the same solution as $x^2 - 16x + 27 = 0$

(1) $(x + 8)^2 = 91$
(2) $(x - 8)^2 = 91$
(3) $(x + 8)^2 = 37$
(4) $(x - 8)^2 = 37$

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(3) The method of completing the square was used to solve the equation $5x^2 + 10x - 30 = 0$. Which equation is a correct step when using this method?

(1) $(x-1)^2 = -7$
(2) $(x+1)^2 = 31$
(3) $(x+1)^2 = 7$
(4) $(x-1)^2 = -31$

(4) When directed to solve a quadratic equation by completing the square, Sam arrived at the equation $(x - \frac{7}{2})^2 = \frac{65}{4}$. Which equation could have been the original equation given to Sam?

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