Name:

Quadratics-Completing The Square-Common Core QuizVersion 4 Date:

(1) What are the solutions to the equation $x^2 + 12x = 10$?

(1) $x = 6 \pm 1\sqrt{26}$
(2) $x = -6 \pm 1\sqrt{26}$
(3) $x = -6 \pm -\sqrt{46}$
(4) $x = 6 \pm -\sqrt{46}$

(2) Which equation has the same solution as $x^2 - 6x + 4 = 0$

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

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(3) The method of completing the square was used to solve the equation $4x^2 + 40x + 92 = 0$. Which equation is a correct step when using this method?

(1) $(x - 5)^2 = -2$
(2) $(x - 5)^2 = 67$
(3) $(x + 5)^2 = -67$
(4) $(x + 5)^2 = 2$

(4) When directed to solve a quadratic equation by completing the square, Sam arrived at the equation $(x - \frac{1}{2})^2 = \frac{61}{4}$. Which equation could have been the original equation given to Sam?

(1) $x^2 - x - 15 = 0$
(2) $x^2 + x + 1 = 0$
(3) $x^2 + x - 15 = 0$
(4) $x^2 - x + 1 = 0$