Name:

Quadratics-Completing The Square-Common Core QuizVersion 1 Date:

(1) What are the solutions to the equation $x^2 - 18x = -69$?

(1) $x = 9 \pm -2\sqrt{3}$
(2) $x = -9 \pm -2\sqrt{3}$
(3) $x = 9 \pm 5\sqrt{6}$
(4) $x = -9 \pm 5\sqrt{6}$

(2) Which equation has the same solution as $x^2 - 6x - 34 = 0$

(1) $(x + 3)^2 = 43$
(2) $(x + 3)^2 = 25$
(3) $(x - 3)^2 = 25$
(4) $(x - 3)^2 = 43$

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(3) The method of completing the square was used to solve the equation $2x^2 + 4x - 36 = 0$. Which equation is a correct step when using this method?

(1) $(x + 1)^2 = 19$
(2) $(x - 1)^2 = -19$
(3) $(x - 1)^2 = -37$
(4) $(x + 1)^2 = 37$

(4) When directed to solve a quadratic equation by completing the square, Sam arrived at the equation $(x + \frac{7}{2})^2 = \frac{101}{4}$. Which equation could have been the original equation given to Sam?

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