Name:

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

(1) What are the solutions to the equation $x^2 + 20x = 56$?

(1) $x = -10 \pm 2\sqrt{11}$
(2) $x = 10 \pm 2\sqrt{11}$
(3) $x = -10 \pm 2\sqrt{39}$
(4) $x = 10 \pm 2\sqrt{39}$

(2) Which equation has the same solution as $x^2 - 16x + 35 = 0$

(1) $(x + 8)^2 = 99$
(2) $(x + 8)^2 = 29$
(3) $(x - 8)^2 = 99$
(4) $(x - 8)^2 = 29$

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(3) The method of completing the square was used to solve the equation $3x^2 + 48x + 183 = 0$. Which equation is a correct step when using this method?

(1) $(x + 8)^2 = -119$
(2) $(x - 8)^2 = 119$
(3) $(x + 8)^2 = 3$
(4) $(x - 8)^2 = -3$

(4) When directed to solve a quadratic equation by completing the square, Sam arrived at the equation $(x + \frac{9}{2})^2 = \frac{37}{4}$. Which equation could have been the original equation given to Sam?

(1) $x^2 + 9x + 21 = 0$
(2) $x^2 + 9x + 11 = 0$
(3) $x^2 - 9x + 21 = 0$
(4) $x^2 - 9x + 11 = 0$