Name:

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

(1) What are the solutions to the equation $x^2 + 16x = 52$?

(1) $x = 8 \pm 2\sqrt{29}$
(2) $x = -8 \pm 2\sqrt{3}$
(3) $x = -8 \pm 2\sqrt{29}$
(4) $x = 8 \pm 2\sqrt{3}$

(2) Which equation has the same solution as $x^2 - 14x + 47 = 0$

(1) $(x + 7)^2 = 96$
(2) $(x - 7)^2 = 96$
(3) $(x + 7)^2 = 2$
(4) $(x - 7)^2 = 2$

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(3) The method of completing the square was used to solve the equation $3x^2 - 30x + 45 = 0$. Which equation is a correct step when using this method?

(1) $(x - 5)^2 = -20$
(2) $(x + 5)^2 = 20$
(3) $(x + 5)^2 = -10$
(4) $(x - 5)^2 = 10$

(4) When directed to solve a quadratic equation by completing the square, Sam arrived at the equation $(x - \frac{5}{2})^2 = \frac{133}{4}$. Which equation could have been the original equation given to Sam?

(1) $x^2 + 5x - 27 = 0$
(2) $x^2 - 5x + 7 = 0$
(3) $x^2 + 5x + 7 = 0$
(4) $x^2 - 5x - 27 = 0$