Name:

Quadratics-Completing The Square-Common Core QuizVersion 5 Date:

(1) What are the solutions to the equation $x^2 + 14x = -16$?

(1) $x = 7 \pm -\sqrt{33}$
(2) $x = -7 \pm 1\sqrt{65}$
(3) $x = -7 \pm -\sqrt{33}$
(4) $x = 7 \pm 1\sqrt{65}$

(2) Which equation has the same solution as $x^2 - 18x + 64 = 0$

(1) $(x + 9)^2 = 145$
(2) $(x + 9)^2 = 17$
(3) $(x - 9)^2 = 17$
(4) $(x - 9)^2 = 145$

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(3) The method of completing the square was used to solve the equation $4x^2 + 16x + 8 = 0$. Which equation is a correct step when using this method?

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

(4) When directed to solve a quadratic equation by completing the square, Sam arrived at the equation $(x - \frac{5}{2})^2 = \frac{69}{4}$. Which equation could have been the original equation given to Sam?

(1) $x^2 - 5x - 11 = 0$
(2) $x^2 - 5x + 7 = 0$
(3) $x^2 + 5x - 11 = 0$
(4) $x^2 + 5x + 7 = 0$