Independent Practice **Expressions and Operations A.14**

Read and solve.

1. The number of seconds to complete a chemical reaction was determined to be given by the equation $s = 250 – 5T – T^2$ where s is the number of seconds and T is the temperature in degrees Celsius at which the reaction occurred. If a chemical reaction was complete in 200 seconds, what was the temperature at which the reaction occurred?

A. 5^{o} C
B. 7^{o} C
C. 10^{o} C
D. 12^{o} C

2. Which is the solution set for the following equation: $x^2 – x – 6 = 0$?

A. {-3, 2}
B. {-2, 3}
C. {-6, 5}
D. {-5, 6}

3. Which is the solution set for the equation $x^2 – 8x + 16 = 0$?

A. {2, -6}
B. {4, -4}
C. {4}
D. {-9, 2}

4. Which is the solution set for the equation $x^2 + 5x – 6 = 0$?

A. {1, -6}
B. {-1, 6}
C. {2, -3}
D. {-2, 3}

5. Which is the solution set for the equation $3x^2 + 7x – 6 = 0$?

A. {-2/3, 3}
B. {2/3, -3}
C. {1, -6}
D. {-1, 6}