

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°C
- B. 7°C
- C. 10°C
- D. 12°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. $\{-1, 6\}$