

Independent Practice

Expressions and Operations

A.12

Read and solve.

1. Which is the complete factorization of the trinomial $x^2 - x - 12$?

- A. $(x + 3)(x - 4)$
- B. $(x - 3)(x + 4)$
- C. $(x + 6)(x - 2)$
- D. $(x + 12)(x - 1)$

2. Which is the complete factorization of the trinomial $3x^2 + 10x - 8$?

- A. $(3x + 2)(x - 4)$
- B. $(x + 2)(3x - 4)$
- C. $(x - 2)(3x + 4)$
- D. $(3x - 2)(x + 4)$

3. When completely factored, $3x^2 - 48$ equals

- A. $3(x^2 - 48)$
- B. $3(x^2 + 16)$
- C. $3(x - 4)(x + 4)$
- D. $(3x - 16)(x + 3)$

4. When completely factored, $x^2 + x - 12$ is equivalent to---

- A. $(x + 3)(x - 4)$
- B. $(x + 4)(x - 3)$
- C. $(x + 7)(x - 5)$
- D. $(x + 12)(x - 1)$

5. One factor of $5x^2 + 13x - 6$ is---

- A. $5x - 6$
- B. $5x - 1$
- C. $5x - 2$
- D. $5x - 3$