

Quiz 28.1

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Factor each completely.

1) $5a^2 + 11a + 2$

- A) $(a + 1)(5a - 2)$
- B) $(5a - 1)(a + 2)$
- C) $(5a + 1)(a + 2)$
- D) $(5a - 1)(a - 2)$

2) $3n^2 + n - 2$

- A) $(3n + 2)(n + 1)$
- B) $(3n - 2)(n + 1)$
- C) $(3n - 4)(n - 3)$
- D) $(n - 2)(3n - 1)$

3) $6n^2 - 17n + 10$

- A) $(n + 2)(6n + 5)$
- B) $(n - 2)(6n - 5)$
- C) $(n + 2)(6n - 5)$
- D) $(n - 2)(6n + 5)$

4) $4a^2 + 31a + 21$

- A) $(2a - 5)(3a - 1)$
- B) $(4a + 7)(a + 3)$
- C) $(a + 7)(4a + 3)$
- D) $(a - 7)(4a - 3)$

Solve each system by substitution.

5) $-8x - y = 24$
 $y = 8x + 24$

- A) $(-3, -7)$
- B) $(-7, 3)$
- C) $(3, -7)$
- D) $(-3, 0)$

6) $-8x - 8y = 8$
 $y = -2x + 4$

- A) $(5, -6)$
- B) $(-4, -6)$
- C) $(-5, -6)$
- D) $(4, -6)$