

Quiz 27.1

Factor each completely.

1) $n^2 - 100$

- A) $(n + 6)^2$
- B) $(n - 10)(n + 10)$
- C) Not factorable
- D) $(n - 10)^2$

2) $x^2 + 8x + 7$

- A) $(x + 7)(x - 1)$
- B) $(x - 7)(x + 1)$
- C) $(x + 7)(x + 1)$
- D) $(x - 7)(x - 1)$

3) $v^2 + 8v + 16$

- A) $(v - 1)(v + 1)$
- B) $(v + 4)^2$
- C) $(v + 4)(v - 4)$
- D) $(v + 7)(v - 3)$

4) $k^2 - k - 42$

- A) $(k + 7)(k + 6)$
- B) $(k + 3)(k + 6)$
- C) $(k - 7)(k - 6)$
- D) $(k - 7)(k + 6)$

5) $x^2 - 4$

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

6) $9m^2 - 25$

- A) $(3m + 5)(3m - 5)$
- B) $(9m + 25)^2$
- C) $(3m - 5)^2$
- D) $(3m + 25)^2$

Solve each system by elimination.

7)
$$\begin{aligned} -2x + 5y &= 17 \\ 5x - 5y &= -20 \end{aligned}$$

- A) $(-7, -3)$
- B) $(-1, 3)$
- C) $(-3, 3)$
- D) $(2, -3)$

8)
$$\begin{aligned} 8x - 6y &= 30 \\ 4x + 5y &= -25 \end{aligned}$$

- A) $(-1, -5)$
- B) $(-1, 5)$
- C) $(7, 5)$
- D) $(0, -5)$