

Homework 27.3

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Factor each completely.

1) $x^2 + 2x - 80$

2) $x^2 + 2x - 35$

3) $x^2 + 5x + 6$

4) $b^2 - 6b + 8$

5) $a^2 - 7a - 8$

6) $x^2 - 7x + 6$

7) $x^2 - 25$

8) $n^2 - 9$

9) $25v^2 - 4$

10) $9n^2 - 1$

Solve each system by elimination.

11) $\begin{aligned} 2x - 6y &= 2 \\ x + 6y &= -8 \end{aligned}$

12) $\begin{aligned} 4x + y &= -17 \\ 8x - 2y &= -14 \end{aligned}$

Answers to Homework 27.3

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|-----------------------|------------------------|---------------------|---------------------|
| 1) $(x + 10)(x - 8)$ | 2) $(x + 7)(x - 5)$ | 3) $(x + 2)(x + 3)$ | 4) $(b - 4)(b - 2)$ |
| 5) $(a - 8)(a + 1)$ | 6) $(x - 1)(x - 6)$ | 7) $(x + 5)(x - 5)$ | 8) $(n + 3)(n - 3)$ |
| 9) $(5v + 2)(5v - 2)$ | 10) $(3n + 1)(3n - 1)$ | 11) $(-2, -1)$ | 12) $(-3, -5)$ |