

Homework 27.2

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Factor each completely.

1) $p^2 + 17p + 70$

2) $n^2 - n - 30$

3) $n^2 - 4n - 32$

4) $r^2 + 8r - 20$

5) $n^2 - 13n + 40$

6) $r^2 + 8r + 12$

7) $a^2 - 16$

8) $n^2 - 1$

9) $16x^2 - 9$

10) $4n^2 - 25$

Solve each system by elimination.

11)
$$\begin{aligned} x - 3y &= 9 \\ x + 3y &= -21 \end{aligned}$$

12)
$$\begin{aligned} 4x - 8y &= 24 \\ -x + 16y &= -20 \end{aligned}$$

Answers to Homework 27.2

1) $(p + 10)(p + 7)$

5) $(n - 5)(n - 8)$

9) $(4x + 3)(4x - 3)$

2) $(n + 5)(n - 6)$

6) $(r + 2)(r + 6)$

10) $(2n + 5)(2n - 5)$

3) $(n - 8)(n + 4)$

7) $(a + 4)(a - 4)$

11) $(-6, -5)$

4) $(r - 2)(r + 10)$

8) $(n + 1)(n - 1)$

12) $(4, -1)$