

HW #9

Solve each equation by factoring.

1) $k^2 + 13k + 42 = 0$

2) $n^2 - 3n - 48 = -n$

3) $3k^2 + 2k - 5 = 0$

4) $3n^2 - 24 = -14n$

5) $9a^2 - 16$

6) $b^2 - 7b = 0$

Solve each equation by factoring.

7) $p^2 - 13p + 40 = 0$

8) $n^2 - n - 56 = 0$

9) $5p^2 - 26p + 5 = 0$

10) $3n^2 + 8n = 0$

11) $n^2 - 4n = 0$

12) $3k^2 - 8 = 2k$

13) $8x^2 - 31x = 4$

14) $4m^2 + 2 = -m^2 + 2 - 3m$

15) $2p^2 - 5p - 3 = -3$

16) $15n^2 - 7n = -8n + 40$

Answers to HW #9

1) $\{-6, -7\}$

2) $\{8, -6\}$

3) $\left\{-\frac{5}{3}, 1\right\}$

4) $\left\{\frac{4}{3}, -6\right\}$

5) $\left\{\frac{4}{3}, -\frac{4}{3}\right\}$

6) $\{7, 0\}$

7) $\{5, 8\}$

8) $\{8, -7\}$

9) $\left\{\frac{1}{5}, 5\right\}$

10) $\left\{-\frac{8}{3}, 0\right\}$

11) $\{4, 0\}$

12) $\left\{-\frac{4}{3}, 2\right\}$

13) $\left\{-\frac{1}{8}, 4\right\}$

14) $\left\{-\frac{3}{5}, 0\right\}$

15) $\left\{\frac{5}{2}, 0\right\}$

16) $\left\{\frac{8}{5}, -\frac{5}{3}\right\}$