

15-03-05-T8

**Solve each equation by factoring.**

1)  $20 = -8x^2 - 28x$

2)  $0 = -23a - 12 - 5a^2$

3)  $22n = 40 - 6n^2$

4)  $-1 + n = -2n^2$

5)  $20 = -23b - 6b^2$

6)  $5r^2 + 9r = -4$

7)  $5x^2 + 3 = 16x$

8)  $-4 = -5x^2 + x$

9)  $-10 + x = -3x^2$

10)  $-20 - 11n = -3n^2$

11)  $-27k = 12 - 27k^2$

12)  $-8 = 36n - 20n^2$

13)  $-15 = -25p^2 - 70p$

14)  $3n^2 - 5 = -2n$

15)  $-12 - 5x = -25x^2$

16)  $3r^2 + 17r = -10$

17)  $20 = -104p - 20p^2$

18)  $-2 + 2x = -4x^2$

19)  $2v^2 - 6 = v$

20)  $3m^2 = 4 - 4m$

## Answers to 15-03-05-T8

1)  $\left\{-\frac{5}{2}, -1\right\}$

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

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

4)  $\left\{\frac{1}{2}, -1\right\}$

5)  $\left\{-\frac{4}{3}, -\frac{5}{2}\right\}$

6)  $\left\{-\frac{4}{5}, -1\right\}$

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

8)  $\left\{-\frac{4}{5}, 1\right\}$

9)  $\left\{\frac{5}{3}, -2\right\}$

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

11)  $\left\{-\frac{1}{3}, \frac{4}{3}\right\}$

12)  $\left\{-\frac{1}{5}, 2\right\}$

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

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

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

16)  $\left\{-\frac{2}{3}, -5\right\}$

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

18)  $\left\{\frac{1}{2}, -1\right\}$

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

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