

Do this side 1st

19.  $-5s^2 = -30$

20.  $-3x^2 = 11$

21.  $25x^2 - 4 = 0$

22.  $4x^2 - 28 = 0$

23.  $-3w^2 + 8 = -20$

24.  $-2t^2 - 11 = 5$

In Exercises 25-28, solve the equation by completing the square.

25.  $x^2 - 2x = 12$

26.  $x^2 - 4x - 30 = 0$

27.  $w^2 - w - 1 = 0$

28.  $t^2 + 3t - 2 = 0$

In Exercises 1–12, solve each equation by factoring.

1.  $x^2 - 8x + 15 = 0$

2.  $x^2 + 5x + 6 = 0$

3.  $x^2 - 5x = 14$

4.  $x^2 + x = 20$

5.  $2y^2 + 5y - 3 = 0$

6.  $3t^2 - t - 2 = 0$

7.  $4t^2 + 9t + 2 = 0$

8.  $9t^2 + 2 = 11t$

9.  $3u^2 + u = 4$

10.  $5x^2 + 26x = -5$

11.  $12x^2 + 13x = 4$

12.  $18x^2 = 23x + 6$

In Exercises 13–24, solve the equation by taking the square root of both sides. Give exact solutions and approximate solutions, if appropriate.

13.  $x^2 = 9$

14.  $x^2 = 12$

15.  $x^2 = 40$

16.  $-x^2 = -10$

17.  $3x^2 = 12$

18.  $\frac{1}{2}v^2 = 10$