



Solve each problem. Write your answer as a decimal rounded to 2 places.

Answers

1) $x(-5x - 1) = -4$

2) $x(20x - 11) = 3$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

3) $x(20x - 10) = 10$

4) $x(12x - 8) = 4$

5) $x(-8x + 20) = 8$

6) $x(6x + 11) = -3$

7) $x(9x - 6) = 15$

8) $x(-16x + 4) = -12$

9) $x(-15x + 10) = -5$

10) $x(4x + 7) = 15$



Solve each problem. Write your answer as a decimal rounded to 2 places.

1) $x(-5x - 1) = -4$

$$\frac{1 \pm \sqrt{-12 - 4(-5)(4)}}{2}$$

$$\frac{1 \pm 9}{-10}$$

$$x_+ = -1$$

$$x_- = -5$$

2) $x(20x - 11) = 3$

$$\frac{11 \pm \sqrt{-112 - 4(20)(-3)}}{40}$$

$$\frac{11 \pm 19}{40}$$

$$x_+ = \frac{3}{4}$$

$$x_- = \frac{-1}{5}$$

3) $x(20x - 10) = 10$

$$\frac{10 \pm \sqrt{-102 - 4(20)(-10)}}{40}$$

$$\frac{10 \pm 30}{40}$$

$$x_+ = 1$$

$$x_- = \frac{-1}{2}$$

4) $x(12x - 8) = 4$

$$\frac{8 \pm \sqrt{-82 - 4(12)(-4)}}{24}$$

$$\frac{8 \pm 16}{24}$$

$$x_+ = \frac{1}{3}$$

$$x_- = \frac{-1}{3}$$

5) $x(-8x + 20) = 8$

$$\frac{-20 \pm \sqrt{202 - 4(-8)(-8)}}{-16}$$

$$\frac{-20 \pm 12}{-16}$$

$$x_+ = -2$$

$$x_- = -1$$

6) $x(6x + 11) = -3$

$$\frac{-11 \pm \sqrt{112 - 4(6)(3)}}{-12}$$

$$\frac{-11 \pm 7}{-12}$$

$$x_+ = \frac{-1}{3}$$

$$x_- = \frac{-3}{2}$$

7) $x(9x - 6) = 15$

$$\frac{6 \pm \sqrt{-62 - 4(9)(-15)}}{18}$$

$$\frac{6 \pm 24}{18}$$

$$x_+ = \frac{5}{3}$$

$$x_- = \frac{-1}{3}$$

8) $x(-16x + 4) = -12$

$$\frac{-4 \pm \sqrt{42 - 4(-16)(12)}}{-32}$$

$$\frac{-4 \pm 28}{-32}$$

$$x_+ = -4$$

$$x_- = -1$$

9) $x(-15x + 10) = -5$

$$\frac{-10 \pm \sqrt{102 - 4(-15)(5)}}{-30}$$

$$\frac{-10 \pm 20}{-30}$$

$$x_+ = -3$$

$$x_- = -1$$

10) $x(4x + 7) = 15$

$$\frac{-7 \pm \sqrt{72 - 4(4)(-15)}}{8}$$

$$\frac{-7 \pm 17}{8}$$

$$x_+ = \frac{5}{4}$$

$$x_- = \frac{-3}{4}$$

Answers

1. **-1.00 , 0.80**

2. **0.75 , -0.20**

3. **1.00 , -0.50**

4. **1.00 , -0.33**

5. **0.50 , 2.00**

6. **-0.33 , -1.50**

7. **1.67 , -1.00**

8. **-0.75 , 1.00**

9. **-0.33 , 1.00**

10. **1.25 , -3.00**