



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

Answers

1) $4x^2 = -(6x - 10)$

2) $x(3x - 7) = 20$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

3) $6x^2 = -(-1x - 15)$

4) $x(15x + 20) = -5$

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

6) $6x^2 = -(3x - 9)$

7) $x(15x + 0) = 15$

8) $-20x^2 - 1x + 12$

9) $x(-8x - 6) = -20$

10) $-4x^2 = -(-13x - 3)$



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

Answers

1) $4x^2 = -(6x - 10)$

$$\frac{-6 \pm \sqrt{62 - 4(4)(-10)}}{8}$$

$$\frac{-6 \pm 14}{8}$$

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

$$x_- = \frac{-5}{2}$$

2) $x(3x - 7) = 20$

$$\frac{7 \pm \sqrt{-72 - 4(3)(-20)}}{6}$$

$$\frac{7 \pm 17}{6}$$

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

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

3) $6x^2 = -(-1x - 15)$

$$\frac{1 \pm \sqrt{-12 - 4(6)(-15)}}{12}$$

$$\frac{1 \pm 19}{12}$$

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

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

4) $x(15x + 20) = -5$

$$\frac{-20 \pm \sqrt{202 - 4(15)(5)}}{30}$$

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

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

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

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

$$\frac{4 \pm \sqrt{-42 - 4(2)(2)}}{4}$$

$$\frac{4 \pm 0}{4}$$

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

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

6) $6x^2 = -(3x - 9)$

$$\frac{-3 \pm \sqrt{32 - 4(6)(-9)}}{12}$$

$$\frac{-3 \pm 15}{12}$$

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

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

7) $x(15x + 0) = 15$

$$\frac{0 \pm \sqrt{2 - 4(15)(-15)}}{30}$$

$$\frac{0 \pm 30}{30}$$

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

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

8) $-20x^2 - 1x + 12$

$$\frac{1 \pm \sqrt{-12 - 4(-20)(12)}}{40}$$

$$\frac{1 \pm 31}{40}$$

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

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

9) $x(-8x - 6) = -20$

$$\frac{6 \pm \sqrt{-62 - 4(-8)(20)}}{16}$$

$$\frac{6 \pm 26}{16}$$

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

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

10) $-4x^2 = -(-13x - 3)$

$$\frac{13 \pm \sqrt{-132 - 4(-4)(-3)}}{8}$$

$$\frac{13 \pm 11}{8}$$

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

$$x_- = \frac{1}{-4}$$

1. 1.00 , -2.50

2. 4.00 , -1.67

3. 1.67 , -1.50

4. -0.33 , -1.00

5. 1.00 , 1.00

6. 1.00 , -1.50

7. 1.00 , -1.00

8. -0.80 , 0.75

9. -2.00 , 1.25

10. -3.00 , -0.25