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

1) x(-4x + 5) = -6

2) x(-15x - 30) = 15

3) x(-8x - 2) = -1

4) x(-15x + 13) = 2

5) x(-10x + 4) = -6

6) x(-6x - 5) = -25

7) x(-16x - 16) = 4

8) x(15x + 2) = 1

9) x(9x - 12) = -4

10) x(-1x + 1) = -12

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

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

1) x(-4x + 5) = -6

$-5+-\sqrt{52 - 4(-4)(6)}$

$\frac{-5 \pm 11}{-8}$

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

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

2) x(-15x - 30) = 15

$30+-\sqrt{-302 - 4(-15)(-15)}$

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

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

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

3) x(-8x - 2) = -1

$2+-\sqrt{-22 - 4(-8)(1)}$

$\frac{2 \pm 6}{-16}$

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

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

4) x(-15x + 13) = 2

$-13+-\sqrt{132 - 4(-15)(-2)}$

$\frac{-13 \pm 7}{-30}$

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

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

5) x(-10x + 4) = -6

$-4+-\sqrt{42 - 4(-10)(6)}$

$\frac{-4 \pm 16}{-20}$

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

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

6) x(-6x - 5) = -25

$5+-\sqrt{-52 - 4(-6)(25)}$

$\frac{5 \pm 25}{-12}$

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

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

7) x(-16x - 16) = 4

$16+-\sqrt{-162 - 4(-16)(-4)}$

$\frac{16 \pm 0}{-32}$

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

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

8) x(15x + 2) = 1

$-2+-\sqrt{22 - 4(15)(-1)}$

$\frac{-2 \pm 8}{30}$

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

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

9) x(9x - 12) = -4

$12+-\sqrt{-122 - 4(9)(4)}$

$\frac{12 \pm 0}{18}$

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

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

10) x(-1x + 1) = -12

$-1+-\sqrt{12 - 4(-1)(12)}$

$\frac{-1 \pm 7}{-2}$

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

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

Answers

1. **-0.75 , 2.00**
2. **-1.00 , -1.00**
3. **-0.50 , 0.25**
4. **0.20 , 0.67**
5. **-0.60 , 1.00**
6. **-2.50 , 1.67**
7. **-0.50 , -0.50**
8. **0.20 , -0.33**
9. **0.67 , 0.67**
10. **-3.00 , 4.00**

1-10	90	80	70	60	50	40	30	20	10	0