

1.  $x^2 - 7x + 10 = 0$

$x=5$ ,  $x=2$

2.  $x^2 - 14x + 45 = 0$

$x=5$ ,  $x=9$

3.  $4x^2 + 8x - 77 = 0$

$x=3.5$ ,  $x=-5.5$

4.  $x^2 - 11x + 30.25 = 0$

$x=5.5$ ,  $x=5.5$

5.  $0.25x^2 - 0.25x - 10.5 = 0$

$x=-6$ ,  $x=7$

6.  $x^2 = 15 + 2x$

$x=-3$ ,  $x=5$

$$7. x^2 - 10x + 35 = 7x - 35$$

$$\underline{x=7}, \quad \underline{x=10}$$

$$8. 3 = 16x - 20x^2$$

$$\underline{x=1/2}, \quad \underline{x=3/10}$$

OR

$$\underline{x=0.5}, \quad \underline{x=0.3}$$

$$9. 8x = 0.5x^2 + 31.5$$

$$\underline{x=9}, \quad \underline{x=7}$$

$$10. x^2 + 2.5x - 2.5 = -2x$$

$$\underline{x=-5}, \quad \underline{x=1/2}$$

$$11. x^2 + 7x - 10 = 5 - x^2$$

$$\underline{x=3/2}, \quad \underline{x=-5}$$

$$12. x^2 - 3x = 0$$

$$\underline{x=0}, \quad \underline{x=3}$$