

28.

$$m - 7 = 15$$

a)  $m - 7 + 7 = 15 + 7$   
 $m = 22$

$$11x - 4 = 5x + 20$$

$$11x - 4 + 4 = 5x + 20 + 24$$

$$11x = 5x + 24$$

b)  $11x - 5x = 5x - 5x + 24$   
 $6x = 24$

$$x = \frac{24}{6}$$

$$x = 4$$

$$5(2y - 1) = 3(y - 4)$$

$$(5 \times 2y) - (5 \times 1) = (3 \times y) - (3 \times 4)$$

$$10y - 5 = 3y - 12$$

$$10y - 5 + 5 = 3y - 12 + 5$$

$$10y = 3y - 7$$

c)  $10y - 3y = 3y - 3y - 7$

$$7y = -7$$

$$\frac{7}{-7} = -1$$

$$y = -1$$

$$3d - \frac{11}{4} = \frac{3}{2}$$

$$(3d \times 8) - 8\left(\frac{11}{4}\right) = 8\left(\frac{3}{2}\right)$$

$$24d - 2(11) = 4(3)$$

d)  $24d - 22 = 12$

$$24d - 22 + 22 = 12 + 22$$

$$24d = 34$$

$$d = \frac{34}{24}$$

$$d = 1.416666667$$

e)  $\frac{2m+1}{3} = \frac{3m-2}{5}$

$$15\left(\frac{2m+1}{3}\right) = 15\left(\frac{3m-2}{5}\right)$$

$$5(2m+1) = 3(3m-2)$$

$$(5 \times 2m) + (5 \times 1) = (3 \times 3m) - (3 \times 2)$$

$$10m + 5 = 9m - 6$$

$$10m + 5 - 5 = 9m - 6 - 5$$

$$10m = 9m - 11$$

$$10m - 9m = 9m - 9m - 11$$

$$m = -11$$

$$I = PTR$$

$$60 = 200(.05)T$$

$$60 = 10T$$

$$60 - 10T = 10T - 10T$$

$$60 - 10T = 0$$

$$29. \quad 60 - 60 - 10T = 0 - 60$$

$$-10T = -60$$

$$T = \frac{60}{10}$$

$$T = 6$$

30.

$$1480 = 1000 + 30h$$

$$1480 - 1000 = 1000 - 1000 + 30h$$

$$480 = 30h$$

$$h = \frac{480}{30}$$

$$h = 16$$