Foundations to Algebra Chapter 5.1.1 to 5.2.1 Practice

Name Date 11/22-upgeriod

Solve each problem completely. Show all work!

Solve for each equation for the specified variable.

1.) a.)
$$5x + 3y = 15$$
 for y.

c.)
$$6-2(q-3p) = 4p$$
 for p

$$6-2q+6p=4p$$

 $6-2q=-2p$
 $-3+q=p$
Solve each equation.

2.) **a**.)
$$\frac{3}{4}x = 60$$

c)
$$\frac{3x+1}{2} = 5$$

$$x = 3$$

e.)
$$\frac{1}{3}x + \frac{1}{4}x = 4$$

$$7 \times = 48$$

g. $5\frac{x}{3} - \frac{6x}{5} = 3$'s

g.)
$$\frac{5x}{3} - \frac{6x}{5} = 3$$
'S

b.)
$$2I + 2w = p$$
 for w

$$2w = p - 2l$$

$$w = \frac{1}{2}p - l$$

d.)
$$y = \frac{1}{4}x + 1$$
 for x

$$6.3 \cdot \frac{-8}{3} m = 6.3$$

-8m=(8

(3) & m = 4 (3)

-34 m = 18

-8m=18

$$M = -2.25$$

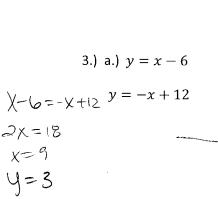
$$d.) \frac{m}{3} - \frac{15}{5}m = \frac{1}{5}$$

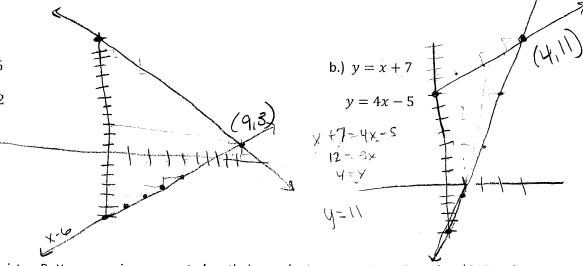
f.)
$$\frac{x}{2} + \frac{x-3}{5} = 3$$

$$\frac{10x}{2} + \frac{10x - 30}{5} = 30$$

$$5x + 2x - 6 = 36$$

Find the point of intersection for each system of equations. If you need graph paper please let me know!





c.) Larry and his sister, Betty, are saving money to buy their own laptop computers. Larry has \$215 and can save \$35 each week. Betty has \$380 and can save \$20 each week. When will Larry and Betty have the same amount of money?

$$L = 35x + 215$$

 $B = 20x + 380$

$$35x + 215 = 20x + 380$$

 $15x = 165$
 $x = 11$

Il weeks they both will have the same amount of money.