*Need 6 (HW) graphs

5.2 pg. 304 #10-46 even #37 & 39

10) $8x+9y=10$
$-8x \quad -8x$
$\frac{9y=-8x+10}{9}$
$y=\frac{-8}{9}x+\frac{10}{9}$

No, cannot be written as $y=kx$

12) $y+8=-x$
$-8 \quad -8$
$y=-x-8$

No

14) $0.7x-1.4y=0$
$-0.7x \quad -0.7x$
$\frac{-1.4y=-0.7x}{-1.4}$
$y=\frac{1}{2}x$

Yes, $\frac{1}{2}$

16) $y=kx$
$4\frac{1}{2}=k(3)$
$\frac{\frac{15}{2}=k3}{3}$
$\frac{5}{2}\cdot\frac{1}{3_1}=x$
$\frac{5}{2}=x$

$y=\frac{5}{2}x$
$y=\frac{5}{12}(\frac{24}{1})$
$y=30$

18) $y=kx$
$\frac{125=k(-5)}{-5}$
$-25=k$

$y=-25x$
$y=-25(12)$
$y=-300$

20) $y=kx$
$9\frac{1}{3}=x(-\frac{1}{2})$
$\frac{\frac{28}{3}=x(-\frac{1}{2})}{-\frac{1}{2}}$
$\frac{28}{3}\cdot\frac{-2}{1}=x$
$\frac{-56}{3}=x$

$y=\frac{-56}{3}x$
$y=\frac{-56}{1_3}\cdot\frac{4_2}{1}$
$y=-224$

rise/run

22 & 24) See attached graphs

Graph 3/

22)

x	$y=\frac{1}{3}x$	(x,y)
0		(0,0)
-3		(-3,-1)
3		(3,1)

24)

x	$y=\frac{-1}{2}x$	(x,y)
0		(0,0)
-2		(-2,1)
2		(2,-1)

Table of

26) $p=6l$ (See graph)

p	6l	(p,l)
0		(0,0)
2		(2,12)
-2		(-2,-12)

28) $K=\frac{y}{x}=\frac{5.4}{3}=\frac{12.6}{7}=\frac{21.6}{12}$ ✓ $y=1.8x$

See graph

30) $y=Kx$

$\frac{\frac{1}{2}=K(3)}{3}$

$\frac{1}{2}\cdot\frac{1}{3}=K$

$\frac{1}{6}=K$

$y=\frac{1}{6}x$

See graph

32) $y=Kx$

$\frac{\frac{6}{5}=K\left(\frac{-5}{6}\right)}{\frac{-5}{6}}$

$\frac{6}{5}\cdot\frac{6}{-5}=K$

$\frac{36}{-25}=K$

$y=\frac{-36}{25}K$

(34) $y = kx$

$\frac{4.6 = k(160)}{160}$

$k \approx 0.03$

0.02875

$y = 0.03x$

$y = 0.03(175)$

$y \approx 5$ quarts

36) Yes, as oz ↑, cal ↑, (0,0) ✓

37) No, as rate ↑, time ↓

38) Yes, length ↑, perimeter ↑, (0,0)

39) No, # of items purchase ↑, $ left ↓

40) a) see graph

b) The graphs get steeper

c) less steep than $y = x$

42) a) The value of y is doubled

b) The value of x is halved.

44) $\frac{4}{3} = \frac{y}{9}$ *cross multiply

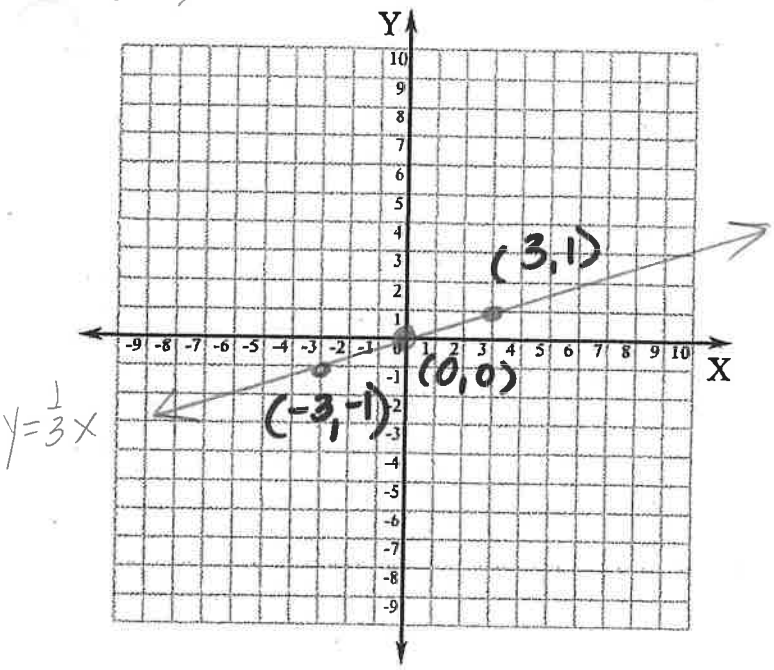
$y = 12$

(46) $\frac{3}{-5} = \frac{-4.8}{x}$

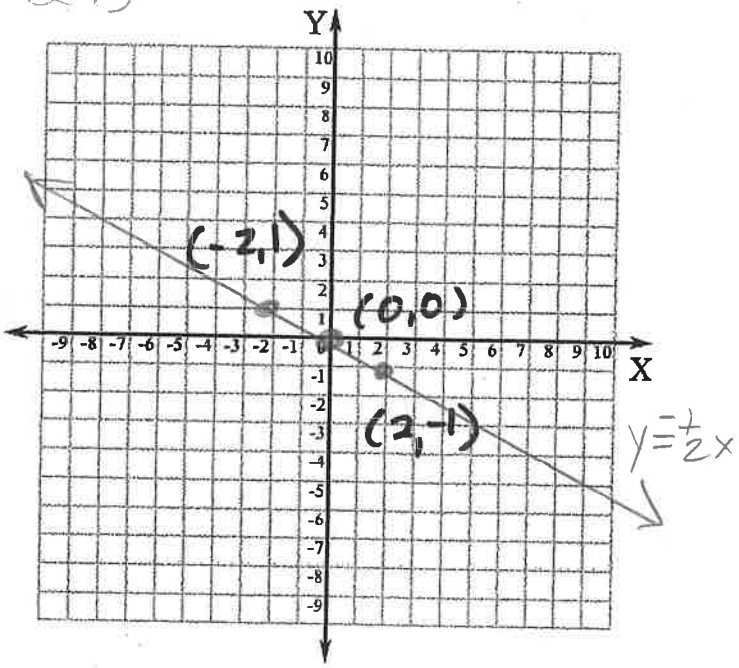
$x = 8$

5.2 pg. 304 Homework

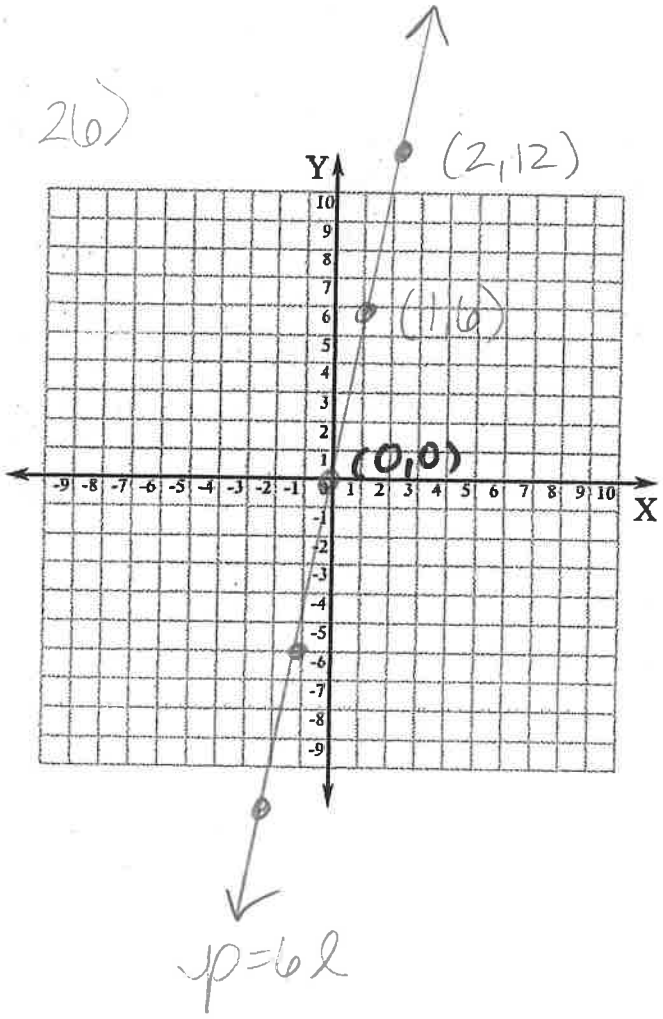
22)



24)



26)



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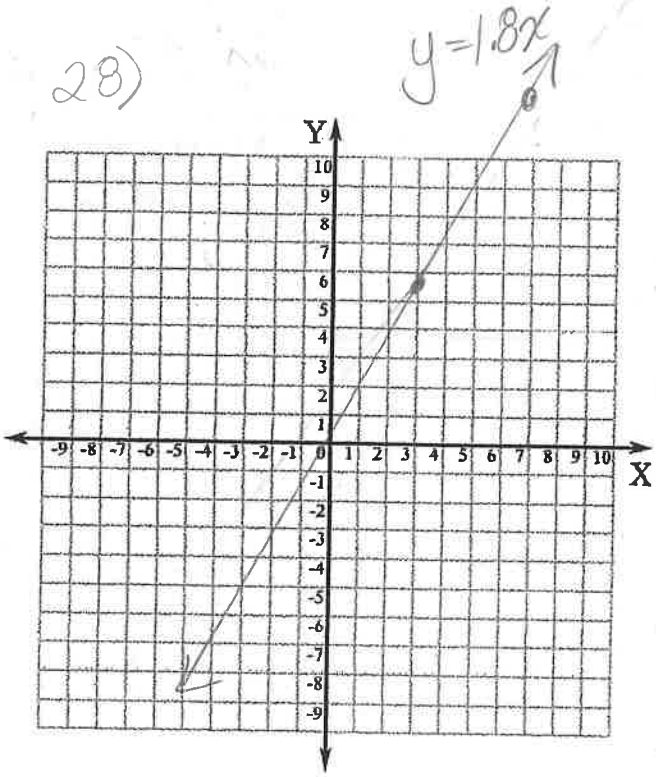

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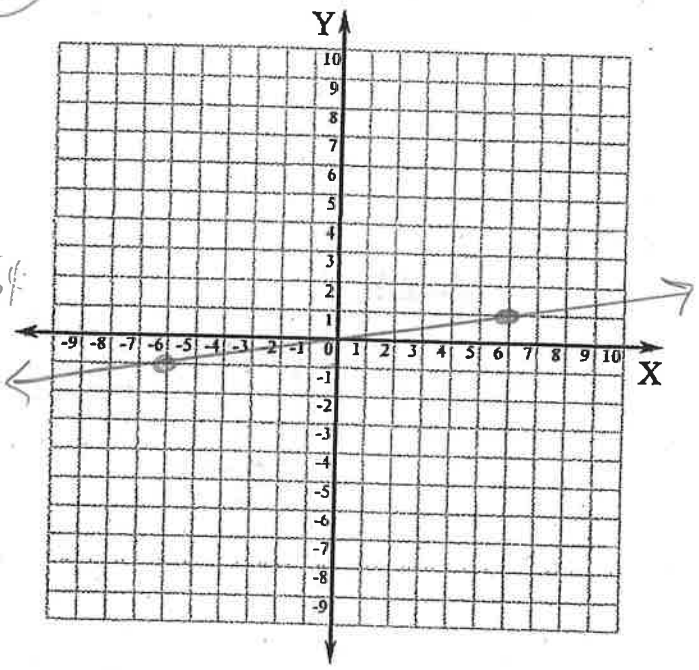

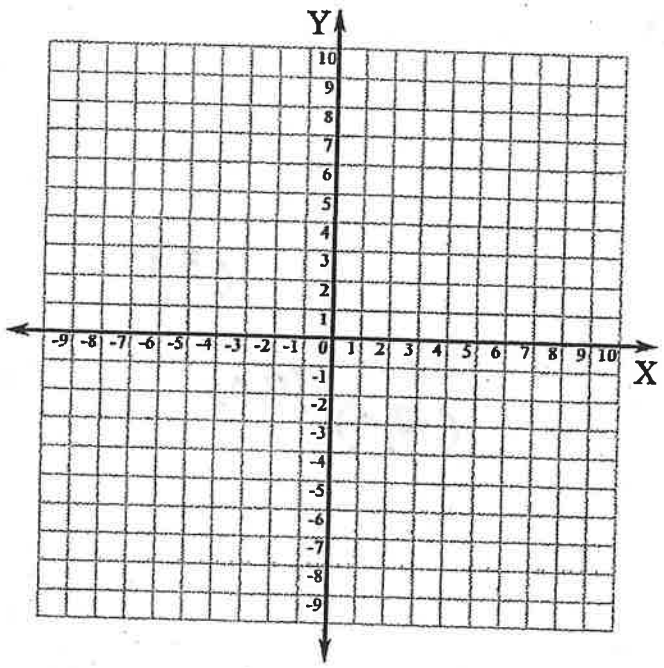

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