Algebra: Please clear your desk except for...

Assignment #23 and SNB

Write the equation of the line with the given information.

1.
$$m = -\frac{1}{2}$$
, (0, 5)

2.
$$m = \frac{3}{4}$$
, (-4, 3)

Go to the back of the room when you are done all three!

3.
$$(6, -5)$$
 and $(3, -3)$

1.
$$m = -\frac{1}{2}$$
, $(0, 5)$ $b = 5$ $y = -\frac{1}{3}x + 5$

2. $m = \frac{3}{4}$, $(-4, 3)$

3. $(6, -5)$ and $(3, -3) *$
 $y = mx + b$
 $3 = (\frac{3}{4})(-1) + b$
 $3 = -\frac{3}{4}$
 $3 = -\frac{3}{4}$

Using Slope-Intercept Form

Landscape Supply: A landscape supply business charges \$30 to deliver mulch. The mulch costs \$23 per cubic yard.

OT = # of \$ 5 ToH cost (1 m = 1 = \$23 per cub. yd

C=#ofcabicycols

(0,30)

(C)T)

137 T= 23C+30 where T is the total cost of having C cubic yands delivered.

Find the cost of having 8 cubic yards of mulch delivered to a site.

T=23C+30 C=8 L=33(8)430

The world cost \$214 to have & Cu. yd

T=194+30 T=#214

delivered

Cable Television: A cable company charges \$44 per month for basic service. Each premium channel costs an additional \$16 per month.

B=#of &[MonthyBill] @ M= AB= 16 per Premium Channel

P = # of Premium Chands

(0,44)

(P,B)

137 B= 16 P+44 where Ris the monthly bill With P premium channels.

How many premium channels can you have if you can afford \$80 a month?

B=80

B= 16P+44 80=16P+44

36= 168

P=24

You can offered 2 premium Chamels if you can only

pay \$80 amonth.

Algebra 5.2-Use Linear Equations in Slope-Intercept Form 2015-Key2.notebolidember 16, 2015

Phone Bill: I noticed my phone bill had been increasing over the past year. My bill in December of 2013 was \$80.50. Last month, November 2015, my bill was \$109.25. Assuming a constant increase, predict my phone bill for July 2016.

$$B = \# \text{ of } \# \text{ (Monthly B: II)}$$

$$M = \# \text{ of months (all Dec.)}$$

$$M = \frac{\Delta B}{\Delta M} = \frac{109.25 - 80.50}{23 - 0}$$

$$M = \frac{26.75}{23} = \frac{80.75}{1.25} = \frac{80.75}{1.25} = \frac{80.75}{1.25} = \frac{10.25}{1.25} = \frac{10$$

$$\begin{array}{l}
\boxed{\Box} (0,80.50) (23,109.25) \\
m = \frac{\Delta B}{\Delta m} = \frac{109.25 - 80.50}{23 - 0} \\
m = \frac{26.75}{23} = 1.25 \text{ per modh}
\end{array}$$

Assignment #24

Part I:

p. 296-298

#6-8 (Write the equation and graph labeling 3 points),

#14-19, 50-52

Part II: Chapter 5 Mid-Chapter Review Packet