Math 10 unit 4.4: Parallel and Perpendicular Lines

A) What are parallel lines?

B) What are perpendicular lines?
 -lines that form right angles when the intersect.

 -so:

 -note: a vertical line is perpendicular to a horizontal line.
        ie:

C) Questions:

ex: a line goes through these points…are they parallel, perpendicular, or neither?

i) (-4,1) and (3,5); (1,-11) and (15,-3)

ii) (-4,1) and (3,5); (-13,10) and (-9,3)

iii) (-4,1) and (3, 5); (2,3) and (6, 1)

Try: are they parallel, perpendicular, or neither?
a) m=   m=

b) m=   m=

c) m=   m=

Ex: if these lines are parallel, find the missing number.
a) m=2, m=$\frac{-6}{x}$

b) m=

Ex: if these lines are perpendicular, find the missing number

-do pg 233 #1, 3, 6, 8
-quiz next day on chp 5.4 and 5.5