Homework Week 27 Due Friday 3/10 Name: _____

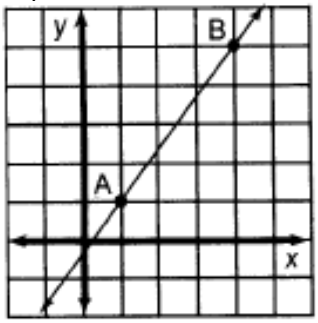
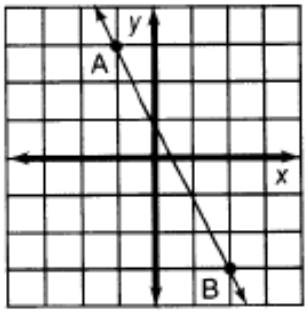
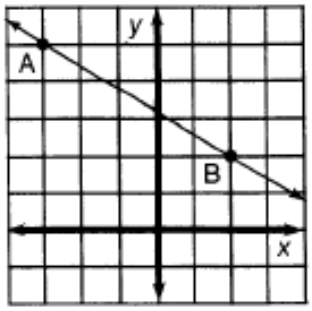
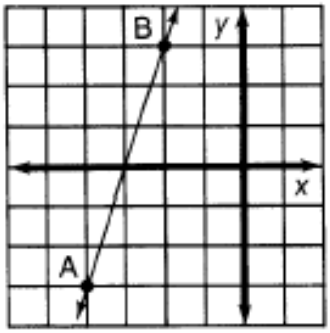
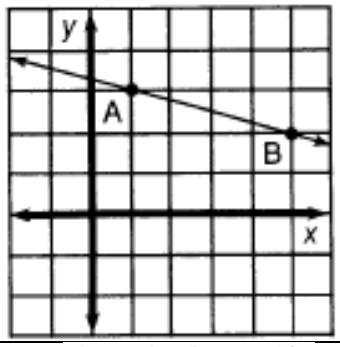
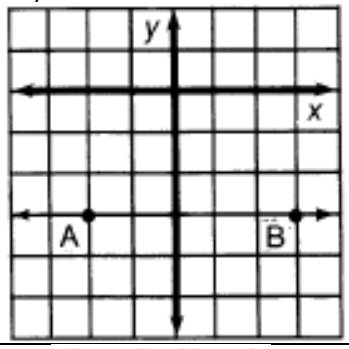
Answer True or False. If false explain why.

1) Slope is a measurement of the steepness of a line.
2) Slope is run divided by rise.
3) The line through (4, 5) and (-3, 5) has undefined slope.
4) The line through (-2, 6) and (-2, -5) has undefined slope.
5) Slope cannot be negative.
6) The slope of the line through (0, -2) and (5, 0) is -2/5.
7) The line through (4, 4) and (5, 5) has slope 5/4.
8) If a line contains points in quadrants I and III then its slope is positive.
9) Lines with slope 2/3 and -2/3 are perpendicular to each other.
10) Any two parallel lines have equal slopes.

Answer each question to the best of your knowledge.

11) What does slope measure and how?
12) What does it mean by rise and run?
13) Why does a horizontal line have a zero slope?
14) Why is a slope undefined for a vertical line?
15) What is the relationship between the slopes of perpendicular lines?
16) What is the relationship between the slopes of parallel lines?

Find the slope of the following. Then say what type of slope it is.

17) 	18) 	19) 
20) 	21) 	22) 
23) $(2, 1); (5, 3)$	24) $(9, 2); (3, -1)$	25) $(8, 3); (2, 5)$
26) $(-5, 8); (-4, 2)$	27) $(0, 0); (-2, 7)$	28) $(1, -1); (-2, -6)$