Lesson 12 Study Guide

1. What is the equation of a line that passes through the points (0,3) and (2,4).

   a. Graph the two points.
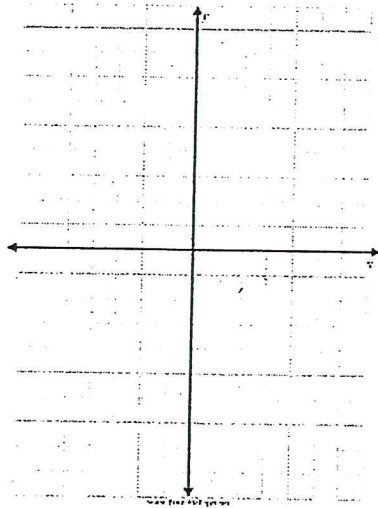
   $$m = \frac{4-3}{2-0} = \frac{1}{2}$$
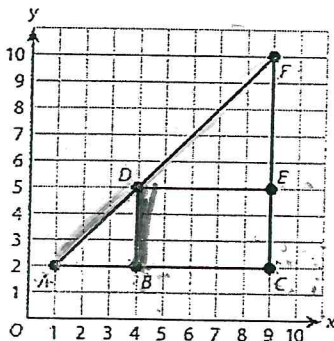
   b. What is the slope of the line? $\frac{1}{2}$

   c. What is the y – intercept? _____3_____

   d. Write the equation of the line in slope-intercept form? $y = \frac{1}{2}x + 3$

2. In the diagram below, triangle ADB is similar to triangle AFC.

   DE and BC
   AB and BC
   AC and AB

   Between which two pairs of points is the slope going to be the same?

   D and F ; A and D   D

   A to F and A to D