

Name _____

Broward College

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

1) Use the slope formula to determine the slope of the line containing the two points.
(3, 0) and (0, -5)

2) Use the slope formula to determine the slope of the line containing the two points.
(4, -8) and (-1, -2)

3) Use the slope formula to determine the slope of the line containing the two points.
 $\left(\frac{8}{5}, -\frac{9}{2}\right)$ and $\left(-\frac{3}{4}, \frac{1}{3}\right)$

4) The slope of a line is given. Find the slope of a line parallel to the given line and perpendicular to the line.

$$m = \frac{6}{5}$$

5) Two points are given from each of two lines L_1 and L_2 . Without graphing the points, determine if the lines are perpendicular, parallel, or neither.

$$L_1: (-1, 3) \text{ and } (8, -24)$$

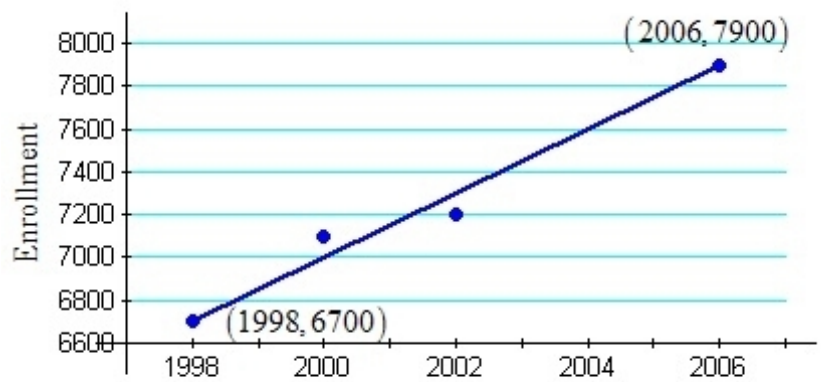
$$L_2: (-9, -11) \text{ and } (3, -7)$$

6) Two points are given from each of two lines L_1 and L_2 . Without graphing the points, determine if the lines are perpendicular, parallel, or neither.

$$L_1: (4, 11) \text{ and } (0, 7)$$

$$L_2: (-6, -4) \text{ and } (7, 9)$$

- 7) The graph shows the enrollment at Riverside Community College for selected years. Use the coordinates of the given points to find the slope of the line. Interpret the meaning of the slope in the



context of this problem

- 8) Given that $(-2, y)$ and $(4, 6)$ are points on a line whose slope is $-\frac{4}{3}$, find y .