

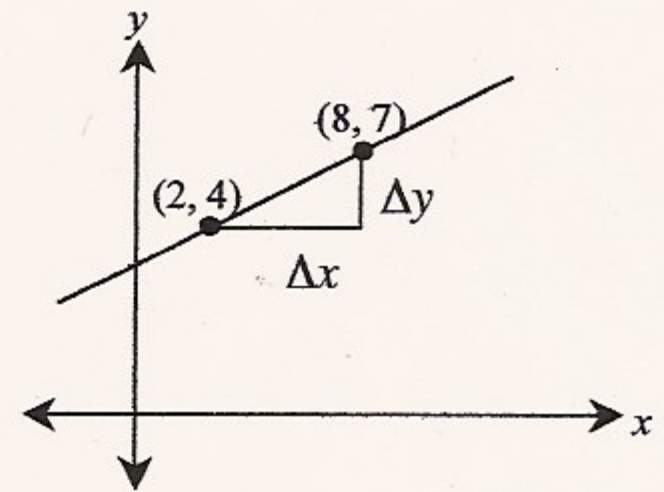
Chapter 7 TEST REVIEW

1. Use an algebraic method to find equations for lines with the following properties:

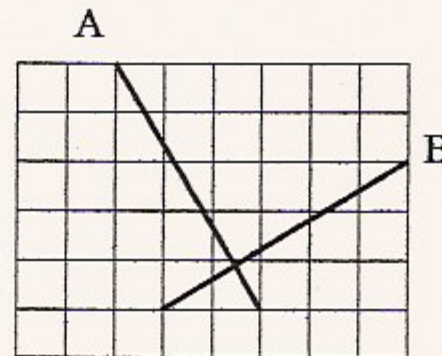
- a. A slope of -3 passing through the point $(-2, 11)$.
- b. A slope of 0.75 and an x -intercept of 4 .
- c. Two points $(2, 7)$ and $(0, 3)$.
- d. A line **parallel** to $y=3x + 4$ that passes through the point $(2, 15)$.
- e. A line **perpendicular** to $y=3x + 4$ that passes through the point $(-3, 3)$

2. Examine the graph at the right

- a. Find the slope of the line.
- b. Calculate the y -intercept.
- c. Write the equation.



3. Examine line segments A and B at right. Decide whether the segments are perpendicular. Prove your claim using mathematics.



4. Find the equations of perpendicular lines A and B shown at right.

