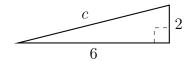
BECA / Dr. Huson / Geometry 06-Analytic-geometry Name: pset ID: 84

6-6DN-Distance+slope

- 1. Write down the slope perpendicular to the given slope.
 - (a) $m = -\frac{3}{5}$ $m_{\perp} =$
- (b) m = 0.75 $m_{\perp} =$
- 2. The line l has the equation $y = -\frac{1}{2}x + 3$.
 - (a) What is the slope of the line k, given $k \parallel l$?
 - (b) What is the slope of the line j, given $j \perp l$?
- 3. What is the slope of a line perpendicular to the line $y = \frac{3}{2}x + 1$?
- 4. What is the slope of a line parallel to the line x 2y = 1?
- 5. Find XY, X(-1, -6) and Y(11, -6). X(-1, -6) Y(11, -6)



- 6. Find c.
- 7. What is the length of \overline{CD} if C(3,1) and D(7,-2)?

Use
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

- (H(80)) B(120)
- 8. What is the midpoint of \overline{HB} , H(80) and B(120)?
- 9. Graph and label the two equations. Mark their intersection as an ordered pair.

$$y = \frac{3}{2}x - 9$$

$$2x + 3y = 12$$

Are the lines parallel, perpendicular, or neither? Justify your answer.

