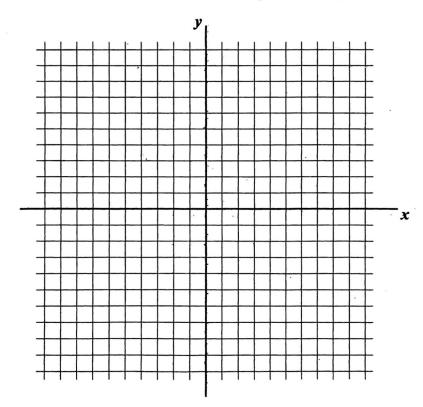
Math (Technical & Scientific) Graphing Linear Equations

Name:				
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1) For each of the following equations, find the slope, the y-intercept and the x-intercept.

Line	Equation	Slope	y-intercept	x-intercept
L ₁	y = 2x - 6			
1/2	3x - 4y + 24 = 0			
13	3x + 2y + 9 = 0			
14.	$\frac{x}{6} + \frac{y}{8} = 1$			

2) Illustrate each of the above lines on the Cartesian plane below (label the lines).



3) Which of the above lines are perpendicular?

Math (Technical & Scientific) Finding Equations of Lines

Name:	

- 1) Find the equation of the line that ...
 - (i) ... has a slope of 4 and passes through the point (6, 17)
 - (ii) ... has a slope of -7 and passes through the point (4, -15)
 - (iii) ... has a slope of $\frac{1}{3}$ and passes through the point (-4, -2)
 - (iv) ... passes through the points (3, 50) and (5, 90)
 - (v) ... passes through the points (6, -9) and (-8, -2)
 - (vi) ... has x-intercept = 70 and y-intercept = 20
 - (vii) ... passes through the point (10, 4) and is parallel to the line: y = 5x + 6
 - (viii) ... passes through the point (10, 4) and is perpendicular to the line: y = 5x + 6
 - (ix) ... passes through the origin and is parallel to the line: 6x + 4y + 12 = 0
 - (x) ... has x-intercept = 14 and is perpendicular to the line: 7x 4y + 1 = 0