

Homework: Draw the Line

	<p>A line that passes through the point (1, -3). The line is perpendicular to another line. Whose slope = -1</p> <p>First form equation: slope of line = $y - y_1/x - x_1$ Slope of perpendicular line is negative reciprocal; so slope of the line is $-(1/-1) = 1$ As value of x_2 and y_2 are given: $1 = y - (-3)/x - 1$ $x - 1 = y + 3;$ $x - y = 4$</p> <p>Find one more value of x and y. On graph draw a line including two values of x and y.</p>						
<table border="1" style="margin: auto;"> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">0</td> </tr> <tr> <td style="padding: 5px;">y</td> <td style="padding: 5px;">-3</td> <td style="padding: 5px;">-4</td> </tr> </table>	x	1	0	y	-3	-4	
x	1	0					
y	-3	-4					

Draw the line that is described.

1. A line that passes through the point (1, 3). Slope = 1
2. A line that passes through the point (0, -1). The line is parallel to another line. Slope = 3
3. A line that passes through the point (2, -3). The line is perpendicular to another line. Whose slope = 1/2.
4. A line that passes through the point (1, 4). The line is parallel to another line. Slope = 1
5. A line that passes through the point (1, -5). The line is perpendicular to another line. Whose slope = -1
6. A line that passes through the point (1, -2). The line is parallel to another line. Slope = -4
7. A line that passes through the point (1, -1). Slope = 3
8. A line that passes through the point (2, -5). The line is to parallel another line. Whose slope = -3
9. A line that passes through the point (2, -3). The line is perpendicular to another line. Slope = -1/2
10. A line that passes through the point (1, 1). Slope = 2
11. A line that passes through the point (1, 6). Slope = 1
12. A line that passes through the point (0, -3). The line is perpendicular to another line. Slope = -1/3