

LAGUARDIA COMMUNITY COLLEGE
Department of Mathematics, Engineering, and Computer
Sciences MAT 096 ELEMENTARY ALGEBRA / PILOT
Lab 4

1. Fill in the table using the equation $y = 2x - 1$, and draw the graph of the equation following the table.

x	y
-2	
-1	
0	
1	
2	

2. Find x -intercept and y -intercept of the equation of the line $6x - 4y = 24$ and use them to graph the line.

3. Find the graph of the equation $y = \frac{1}{4}x + 1$

4. Find the slope of the line passing through the points $(-2, 2)$ and $(-5, -7)$.

5. Find the y -intercept and the slope of the line $12x + 2y = 4$

6. Find the y -intercept and the slope of the line $-3x - 2y = 4$

7. Find an equation in slope-intercept form of the line passing through the line $(-3, 1)$ with slope -2 .

8. Find an equation in slope-intercept form of the line passing through the line $(-4, -1)$ with slope $-\frac{5}{4}$

9. Find an equation for the line that passes the points $(-5, 1)$ and $(5, 6)$.

10. Find equations for the vertical and horizontal lines passing through the point $(-3, -7)$.