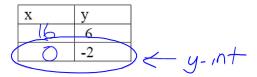


Part I.

- 1. Graph and label y = 2x + 4
- 2. Complete the table for y = 2x + 4

X	y	() (
6	16	2(6)+4.
-2	100	2(-2)+4=0

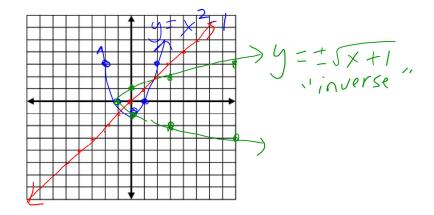
3. Write the of the table



4. Use your "inverse" points from #3 to find the "inverse" equation.

$$M = \frac{y_2 - y_1}{x_2 - x_1} = \frac{6 - (-2)}{16 - 0} = \frac{8}{16} = \frac{1}{2}$$
 slope-intercept form

- 5. Graph and label the "inverse" equation on the graph above.
- 6. Draw the line y = x on the graph. Do you see a relationship between the original equation and the "inverse" equation? If so, explain what is meant by the "inverse".



Part II.

- 1. Graph and label $y = x^2 1$
- 2. Complete the table for $y = x^2 1$

to the tu	ore for y	v 1
X	у	2
-2	W	(-2) -
-1		$ \hat{c}_{1} ^{2} - \hat{c}_{2} ^{2} = 0$
0	- /	70/2
1		() () () ()
2	3	(1) -1=()
		$(2)^{2}-1=3$

3. Solve the equation $x = y^2 - 1$ for y.

$$\begin{array}{ccc}
+1 & +1 \\
X+1 & = & \\
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4. Use your "new" equation from #4 to complete the following table.

1		
X	у	
-1		
0	± /	
3	± '2	
8	7 7	

- 5. Graph and label the "new" equation on the graph above.
- 6. Draw the line y = x on the graph. Do you see a relationship between the original equation and the "inverse" equation or "new" equation? If so, explain what is meant by the "inverse".

meant by the "inverse".

inverse is a reflection of original across the

Y= × line