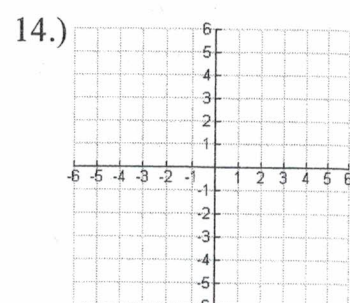
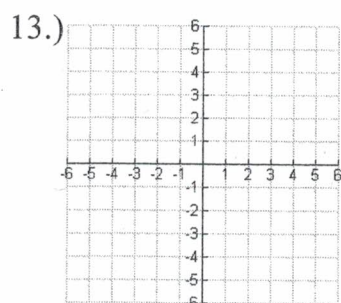
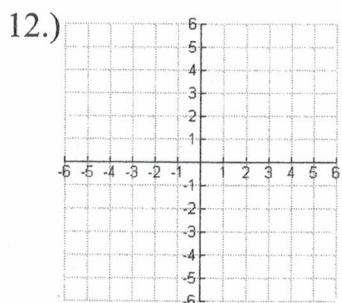
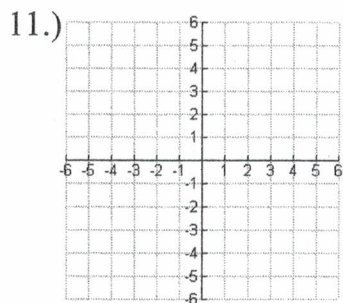
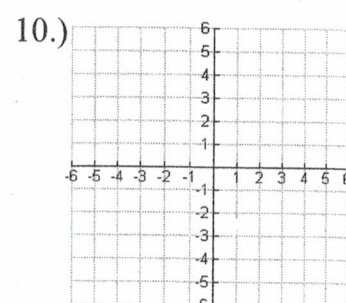
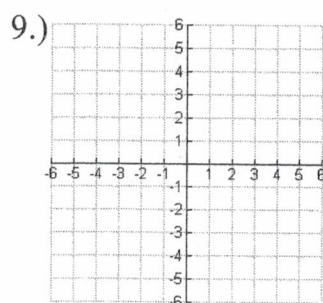
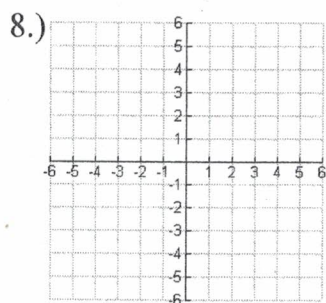
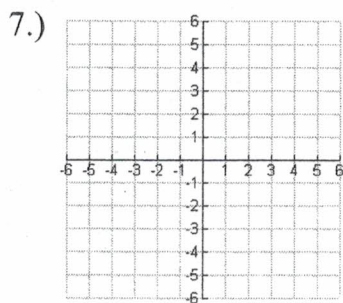


**I. Determine the following are linear functions. If NO, explain why its not linear.**

- 1.)  $y = 3x - x^2 + 1 \rightarrow$  YES NO \_\_\_\_\_ 2.)  $y = x - 3 \rightarrow$  YES NO \_\_\_\_\_  
 3.)  $y = \frac{1}{2}x + 7 \rightarrow$  YES NO \_\_\_\_\_ 4.)  $3x - y = 4 \rightarrow$  YES NO \_\_\_\_\_  
 5.)  $y = \frac{4}{2x-5} \rightarrow$  YES NO \_\_\_\_\_ 6.)  $y = |x + 4| - 2 \rightarrow$  YES NO \_\_\_\_\_

**II. Complete the table about each linear equation. Then graph each linear equation below the table.**

Linear Equation	Slope (m)	y-intercept (b)	Linear Equation	Slope (m)	y-intercept (b)
7.) $y = 2x + 3$			8.) $y = -\frac{1}{4}x - 1$		
9.) $y - 2 = x$			10.) $x - 2y = 6$		
11.) $3y = 2x$			12.) $3x + y = 4$		
13.) $4y = 12 - 4x$			14.) $y + 1 = 4x - 4$		



**III. Write a linear equation in slope intercept form given two points. MUST SHOW WORK!!**

- 15.)  $(-8, 2)$  and  $(0, 6)$       16.)  $(-3, -1)$  and  $(0, -7)$       17.)  $(3, 11)$  and  $(0, -4)$   
 18.)  $(-4, 2)$  and  $(8, 5)$       19.)  $(6, -7)$  and  $(-2, 5)$       20.)  $(3, -6)$  and  $(-4, -13)$