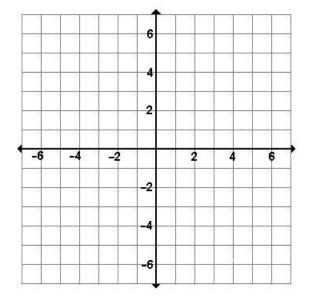
## **PROPERTIES OF LINES**

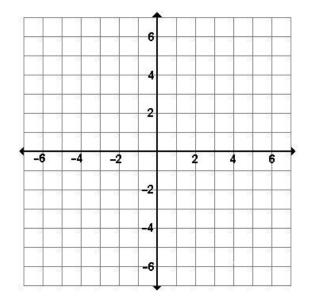
- 1. Use the equations listed below to answer the following
  - a) y = 2x 2 b) y = 2x + 1
- i) What is the slope of each of the lines?a) b)
- ii) Predict if these lines are going to be parallel?
- iii) Graph the lines. Are the lines parallel?



 Use the equations listed below to answer the following.

a) y = 3x - 2 b) y = -2x - 2

- i) What is the slope of each of the lines?a) b)
- ii) What is the y-intercept of each line?a)b)
- iii) Predict if these lines are going to be parallel?
- iv)Graph the lines. Are the lines parallel?(Submit Screen Shot Of graph with label of important point(s))

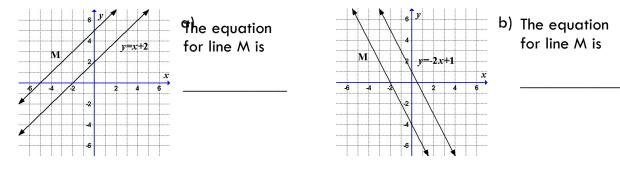


- 3. Consider the following linear equations:
  - i) y = 3x + 4 ii) y = 4 iii) y = x 2 iv) y = -1v) y = -x - 5 vi)  $y = -\frac{1}{2}x + 5$  vii)  $y = \frac{1}{3}x + 8$
  - a) On each equation above, circle the slope value.
  - b) Based on the slope values, write the equation of each line in the appropriate column in the table below

Positive Slope	Negative Slope	Zero Slope

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- 4. Write an equation of a line that is:
  - a) Parallel to y = 4x + 2
  - b) Steeper than y = -x + 7
  - c) Less steep than y = 3x 1
  - d) Parallel to  $y = -\frac{1}{2}x 6$
- 5. Write the equation of the line that is parallel to each line given.



6. A pyramid has a height of 480 ft and a base of 750 ft. Determine the slope of the pyramid. Half of the base is 375 ft.

