

Algebra I Honors  
Graphing Patterns 3

Name \_\_\_\_\_

Date \_\_\_\_\_

1.
  - a) Graph the points  $(-6, -6)$ ,  $(-1, 4)$  on the grid below.
  - b) Connect the points with the longest line that will fit on the grid.
  - c) Write ordered pairs that give the coordinates of three other points on the line.
  - d) Write a function to relate  $y$  to  $x$ .
  - e) Answer the questions below:

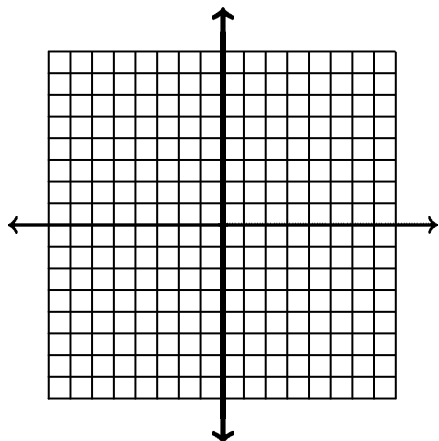
1. Where does the line cross the  $y$  axis? \_\_\_\_\_

2. Write a sentence telling as precisely as you can how fast the line climbs.

---

---

3. What are three points that belong to a different line that climbs at the same rate? \_\_\_\_\_



2. A line crosses the  $y$ -axis at  $(0,6)$ , and crosses the  $x$ -axis at  $(3,0)$ .  
What is the equation of the line?