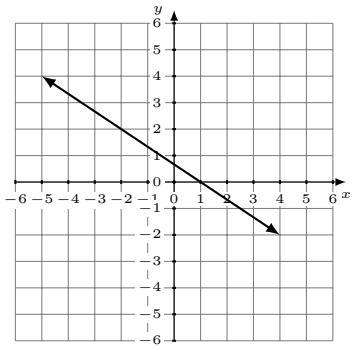
Linear Equations Test 2

Answer the questions in the spaces provided on the question sheets. Be sure to **show your work to earn full credit.** You **MAY** use a calculator to help you. If you run out of room for an answer, raise your hand to ask for an extra piece of paper.

Name and period: _____

1) What is the slope of the graph below?



2) What is the slope of the line through the points $(1, 4)$ and $(5, 2)$? Write your answer in simplest form.

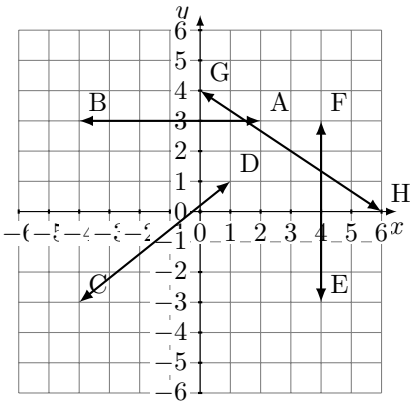
3) What is the slope of the line through the points $(-4, -6)$ and $(2, -3)$? Write your answer in simplest form.

4) What is the slope of the line given by the equation $y = 3x + 1$?

5) What is the rate of change of the relationship in represented by the table?

x	y
-1	0
0	1
1	2

6) Describe each line using one of the four types of slope



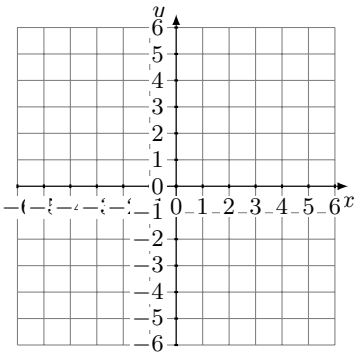
a) $\overline{AB}$: _____

b) $\overline{CD}$: _____

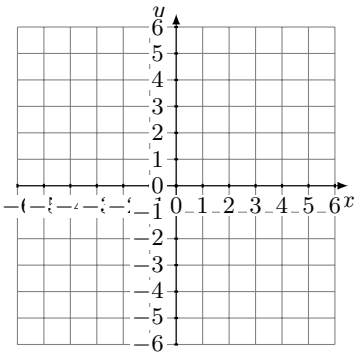
c) $\overline{EF}$: _____

d) $\overline{GH}$: _____

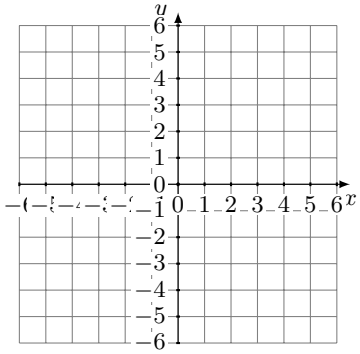
7) Graph the line with x-intercept at $(4, 0)$ and undefined slope.



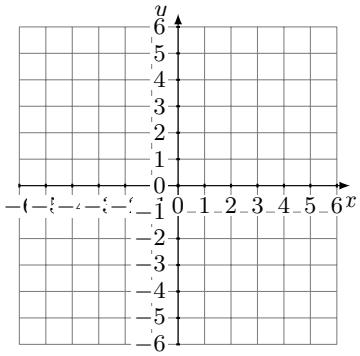
8) Graph the line through the point $(2, 1)$ with slope 5.



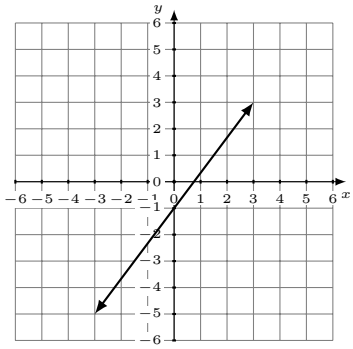
9) Graph the line with x-intercept $(1, 0)$ and slope -5.



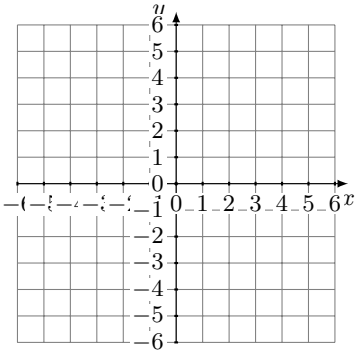
10) Graph the line given by the equation $y = 2x - 3$.



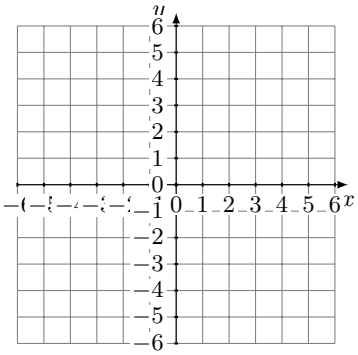
11) Write an equation of the line shown in the graph.



12) Write the slope-intercept form of the equation of the line with y-intercept $(0, 2)$ and slope 3.



13) Write the slope-intercept form of the equation of the line through $(4, 2)$ with slope $-\frac{1}{2}$.



14) Write the slope-intercept form of the linear equation represented by the table.

x	y
-3	0
0	1
3	2