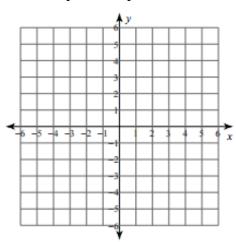
Recall from class, we discussed that mathematics can be represented (a) algebraically – using variables, (b) graphically – using coordinate plane, (c) analytically – using tables and (d) verbally – using words. Provide the missing representations for each problem.

1.
$$y = -6x + 3$$

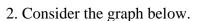
[Graphical Representation]

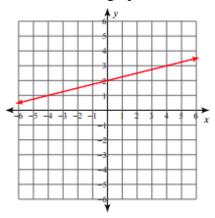


[Analytic Representation]

[Verbal Representation]

Х	Y



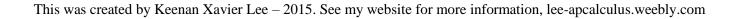


[Analytic Representation]

Х	Y

[Algebra Representation]

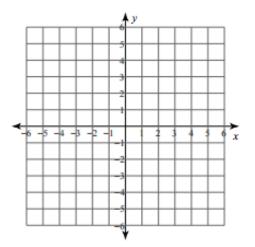
[Verbal Representation]



3. Consider the table below.

Х	Y
-2	5
-1	5
0	5
1	5
2	5

[Graphical Representation]



[Algebraic Representation]



[Verbal Representation]



4. This line is going in negative direction, with a slope of -2 and a y-intercept of (0, 5).

x

[Graphical Representation]

[Algebraic Representation]

[Analytic Representation]

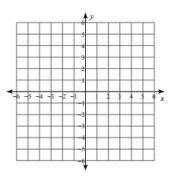
X	Y

Answer the following questions.

5. What is the slope of x = 3?

-4 -3 -2

6. Sketch the graph of this equation.



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Write the equation of the line in slope intercept form y=mx+b *for each of the given information.*

7. through (-3,-4) with slope $=\frac{3}{4}$

9. through (-1, -5) with slope = 9

11. through (1, 0) and (0, 2)

13. through (3, 2) and (1, 2)

8. through (-1, 1) with slope = -2

10. through (2, -1) with slope = $-\frac{5}{2}$

12. through (1, -2) and (-4, 1)

14. through (4, -1) and (1, 4)

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