

Name:

8.5 Classwork: Analytic geometry

8.F.A.3

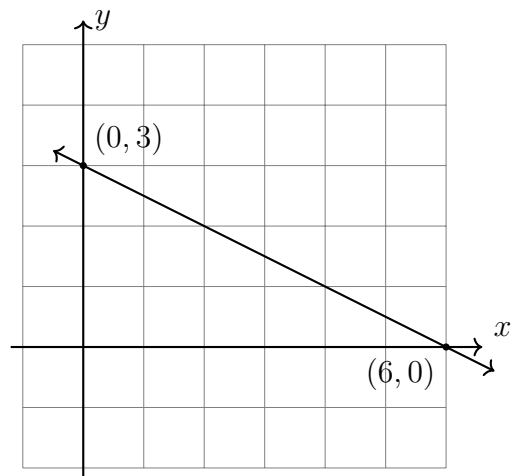
1. A line is plotted in the graph below.

(a) Write down the y -intercept of the line.

(b) What is the slope of the line?

(c) What is the x -intercept of the line?

(d) Write down its equation in slope-intercept form.



2. Find the slope of the line through the points $(-1, 4)$ and $(1, 6)$.

3. A line has a slope of $\frac{3}{5}$ and passes through the point $(10, 7)$.

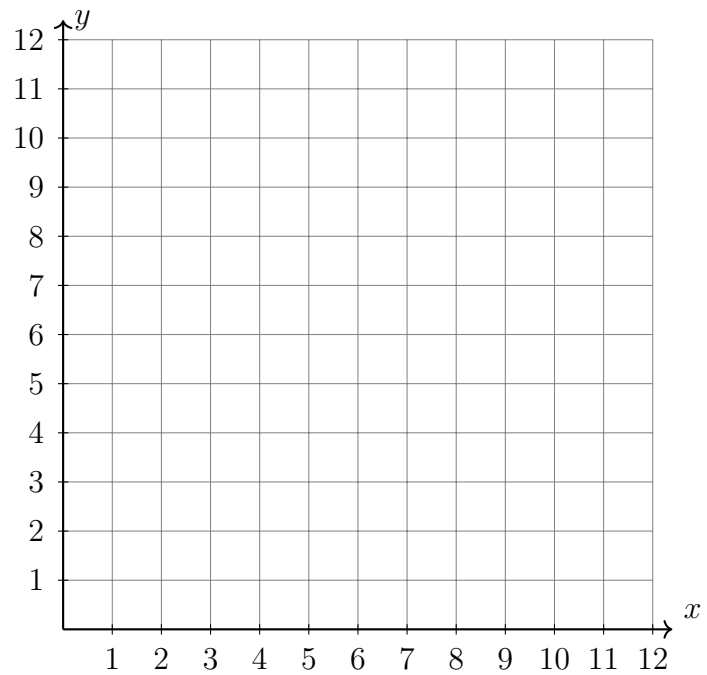
(a) Write the equation of the line in the form $(y - y_1) = m(x - x_1)$.

(b) Rewrite the equation of the line in the form $y = mx + b$.

Systems of equations

HSG.REI.C.6

4. Dr. Huson buys six pizza pies for the Pi Day party, some plain, some special with all the toppings. Plain pizzas cost \$10 and “everything” pizzas \$15. The total cost was \$70. How many of each pizza did he buy?



5. Graph and label the two equations. Mark their intersection as an ordered pair.

$$f(x) = -x + 5$$

$$g(x) = \frac{3}{4}x - 2$$

