

Name:

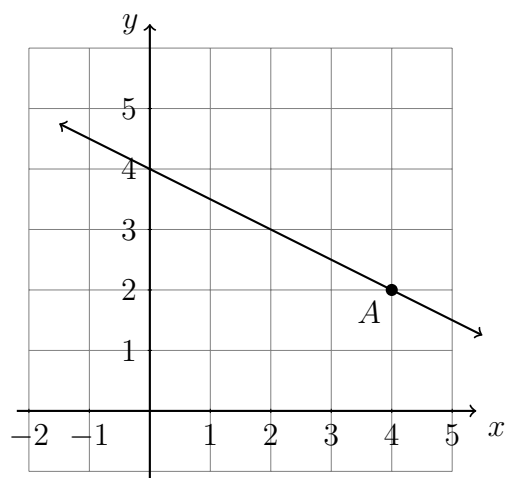
BECA / Dr. Huson / Geometry 04 Analytic Geometry

4.11 Linear functions1. Do Now: A linear equation f is graphed below.(a) State the coordinates of the point A .

(b) Write down the line's slope.

 $m =$ (c) Write down its y -intercept. $b =$

(d) Write down the equation of the line.

(e) Find the x -intercept.

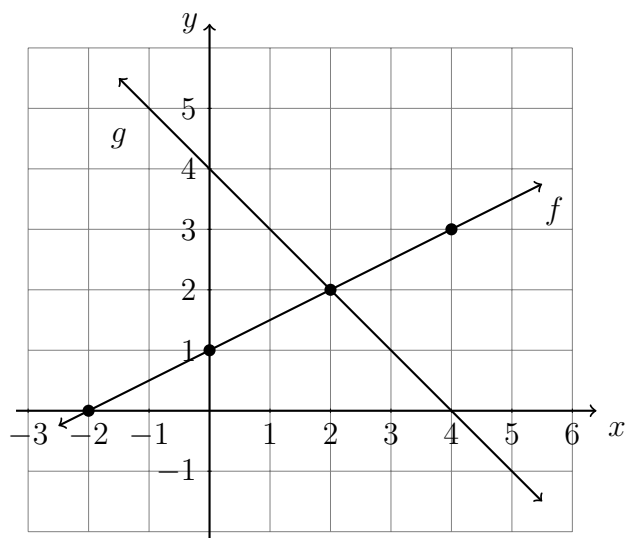
2. Two lines are graphed below.

(a) Complete the T-tables for each.

(b) Write down the equations for each.

$f(x)$

x	y
-2	
0	
2	
3	



$g(x)$

3. A function is defined as $f(x) = 2x + 3$. Find each value.

(a) $f(4) =$

(c) $f(-3) =$

(b) $f(0) =$

(d) $f(1) =$

(e) Find the value of x that makes $f(x) = 0$

Point-slope form: $(y - y_1) = m(x - x_1)$

4. Write the linear equation $y - 1 = 2(x - 3)$ in the form $y = mx + c$.

5. A line has a gradient (slope) of $\frac{3}{4}$ and passes through the point $(8, 3)$. Find the equation of the line in the form $y = mx + b$.

6. Find the equation of the line through the points $(1, 3)$ and $(5, 4)$.