

6. Determine whether the given ordered pair is a solution of the equation.

a) $(2, 7); y = 3x + 1$

y / n

b) $(-2, -1); y = -2x + 3$

y / n

c) $(6, 5); y = \frac{2}{3}x + 1$

y / n

d) $(-8, 1); y = -\frac{3}{4}x - 5$

y / n

e) $(3, 0); 2x - 3y = 6$

y / n

f) $(3, 0); 2x + 3y = 6$

y / n

7. Determine the missing ordered pair values for the given equations.

a) $y = -\frac{3}{4}x + 2$

x	y
0	
	0
4	

b) $y = 3x - 6$

x	y
0	
	0
	6

c) $y = -\frac{3}{4}x - \frac{5}{2}$

x	y
0	
	0
-6	

d) $y = \frac{8}{3}x - 8$

x	y
0	
	0
	4

e) $y = -2x$

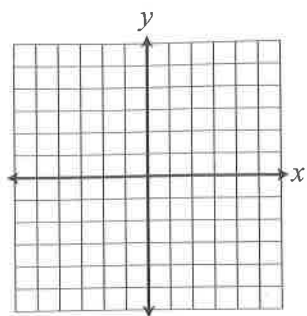
x	y
0	
	0
-3	

f) $y = -2$

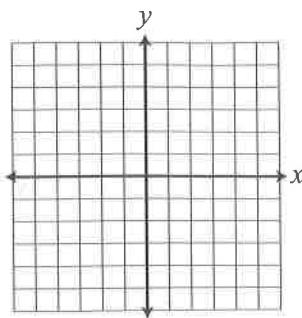
x	y
-3	
0	
4	

8. Graph the equation and identify the y -intercept

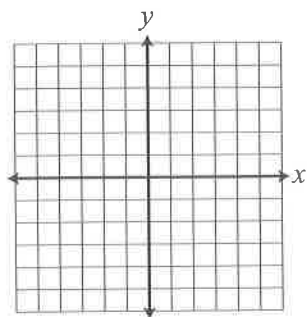
a) $y = x + 1$



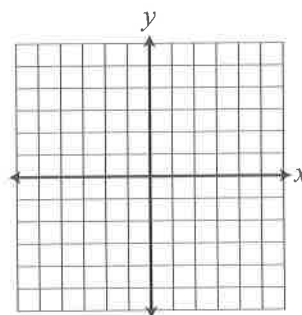
b) $y = 3x - 2$



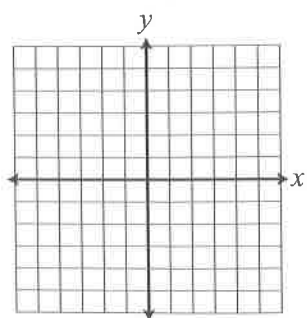
c) $y = -2x + 1$



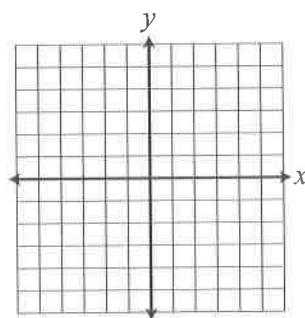
d) $y = -\frac{5}{3}x + 2$



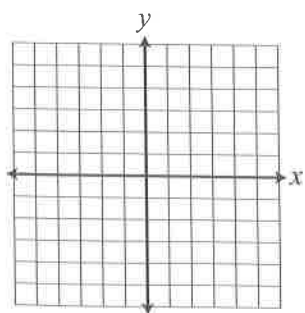
e) $y = \frac{1}{3}x + 2$



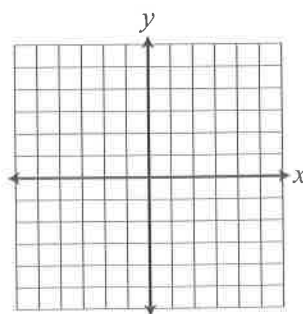
f) $y = \frac{1}{2}x - 1$



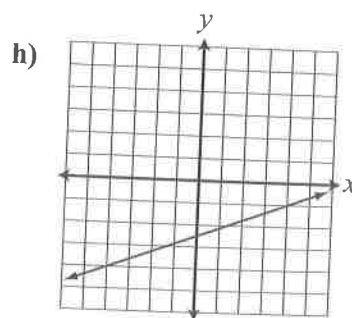
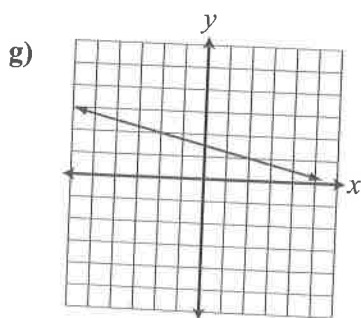
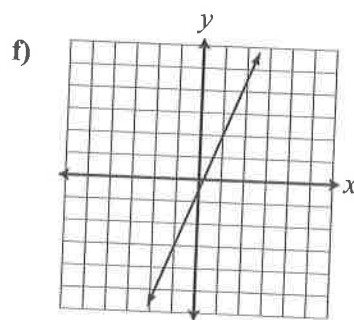
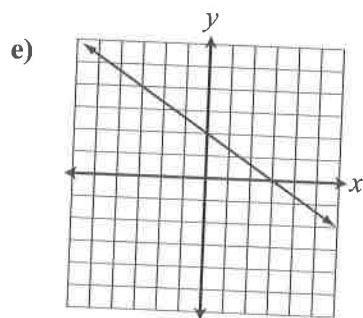
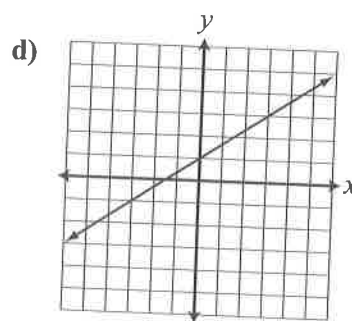
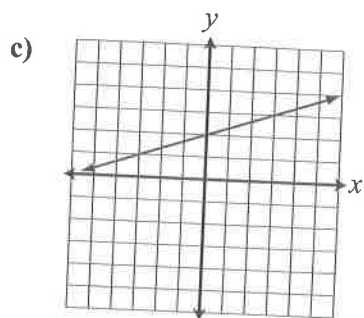
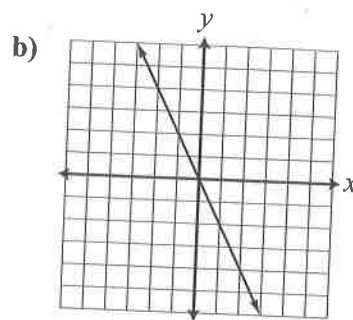
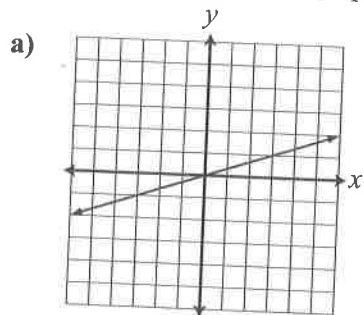
g) $y = \frac{3}{2}x + 1$



h) $y = -\frac{1}{2}(x - 4)$



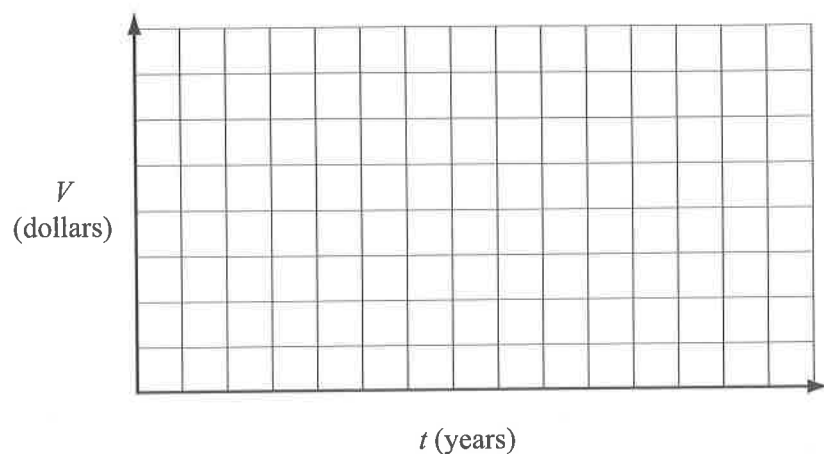
9. Write an equation for the graph.



10. The value (V) in dollars of a stereo bought is given by the equation $V = -100t + 600$ where t is the number of years since first buying the stereo.

a) Find the value of the stereo after zero, two and four years.

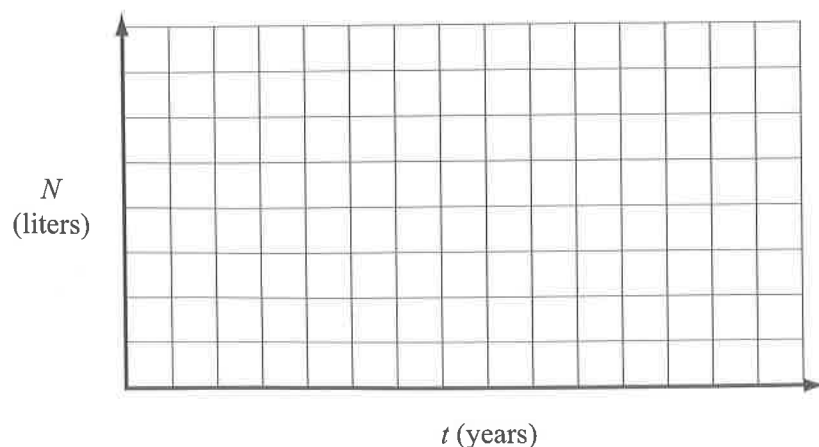
b) Graph the equation and then use the graph to estimate the value of the stereo after $3\frac{1}{2}$ years.



11. The number of liters (N) of soft drinks consumed each year by the average Canadian teenager is approximated by the equation $N = 0.4t + 20$, where t is the age.

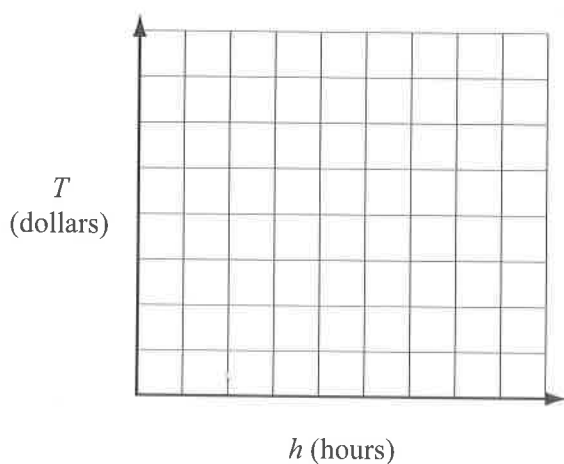
a) Find the number of liters of soft drinks consumed at age 13, 14 and 15.

b) Graph the equation and use the graph to estimate the amount of soft drinks consumed by a 19 year old.



12. The cost (T) in dollars of dues and fees at a health spa is $T = 80h + 100$, where h is the number of hours spent with a personal trainer.

- a) Find the cost for a member who uses two, four or eight hours with a personal trainer.
- b) Graph the equation and then use the graph to estimate the cost of dues and fees for six hours of a personal trainer.



13. The temperature in degrees celsius (T) in Victoria, BC on July 1, 2008 could be approximated by $T = -1.2h + 20$, where h is the number of hours since 5:00 pm.

- a) Find the temperature at 3:00 pm, 7:00 pm and 9:00 pm.
- b) Graph the equation and use the graph to estimate the temperature at 1:00 pm.

