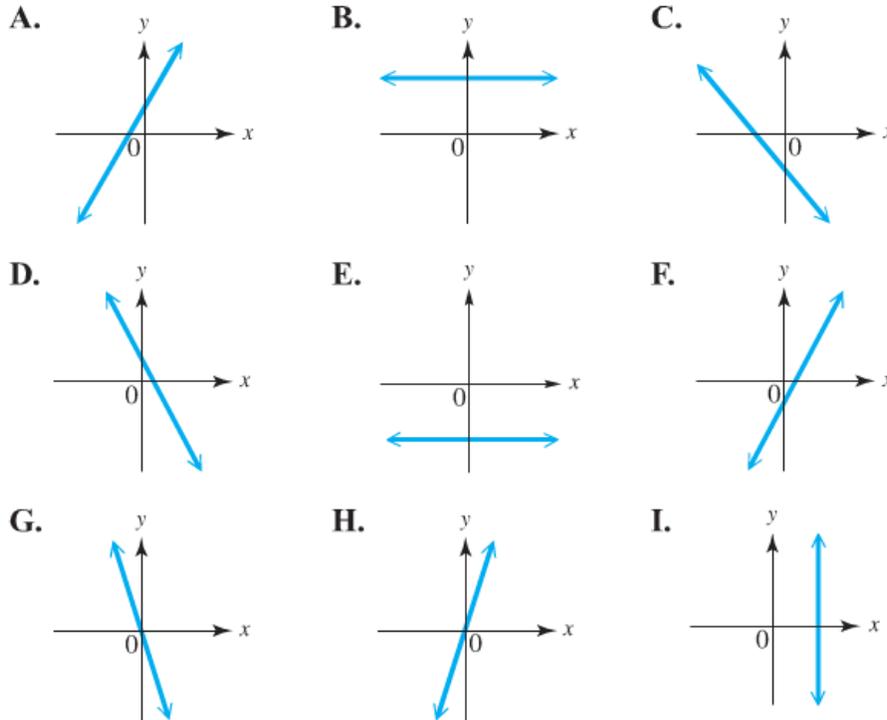


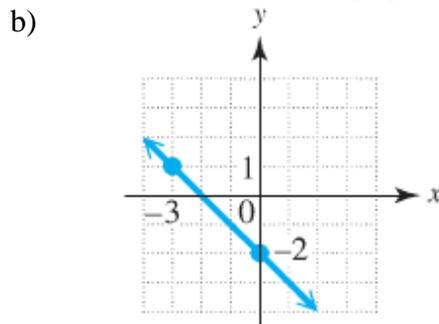
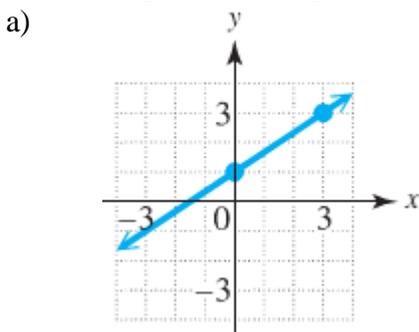
- Determine which equation is in the slope-intercept, slope-point, or standard form of a line:

a) $3x - 2y = 5$	b) $2y = 3x - 5$	c) $-3x + 2y = -5$
d) $y = 6x + 2$	e) $4x + y = 9$	f) $y - 3 = 2(x - 1)$
- Match each equation with the graph that it most closely resembles.

a) $y = 2x + 3$	b) $y = -2x + 3$	c) $y = -2x - 3$	d) $y = 2x - 3$
e) $y = 2x$	f) $y = -2x$	g) $y = 3$	h) $y = -3$



- Write an equation in slope-intercept form of the line shown in each graph.



- For each equation, write it in **slope-intercept form**, give the **slope** of the line, give the **y-intercept**, and **graph** the line.

- | | |
|-------------------|-------------------|
| a) $3x + 4y = 12$ | b) $4x - 5y = 20$ |
|-------------------|-------------------|

- Find an equation of the line that satisfies the given conditions. Write the equation in both slope-intercept and standard form.

- | | |
|--|---|
| a) through $(7, -2)$; slope $\frac{1}{4}$ | b) x -intercept $(3, 0)$; slope 4 |
| c) through $(-4, -2)$; slope 0 | d) through $(-7, 8)$; y -intercept $(0, -3)$ |

3.3 In-class Practice

- e) through $(9, 10)$; undefined slope
- f) through $(-2, 5)$ and $(-8, 1)$
- g) through $(\frac{3}{4}, \frac{8}{3})$ and $(\frac{2}{5}, \frac{2}{3})$
- h) through $(\frac{1}{2}, -3)$ and $(-\frac{2}{3}, -3)$
- i) through $(2, \frac{1}{2})$ and $(2, -\frac{5}{2})$
- j) through $(-2, -2)$; parallel to $-x + 2y = 10$
- k) through $(8, 5)$; perpendicular to $2x - y = 7$
- l) through $(8, -4)$; perpendicular to $x + 2y = -3$
6. For each situation, write an equation in the form $y = mx + b$, **find and interpret** the ordered pair associated with the equation for $x = 5$, and then answer the question.
- a) Let x represent the number of t -shirts sold at \$26 each, and y represent the total cost of the t -shirts (in dollars). What is the total cost of 7 t -shirts? What is the total cost of x t -shirts?
- b) Resident tuition at Broward College is \$87.95 per credit hour. There is also a \$20 health science application fee. Let x represent the number of credit hours and y represent the cost. How much does it cost for a student in health science to take 15 credit hours?
- c) There is a \$30 fee to rent a chain saw, plus \$6 per day. Let x represent the number of days the saw is rented and y represent the charge to the user in dollars. If the total charge is \$138, for how many days is the saw rented?
7. Observe the data of the corresponding Celsius and Fahrenheit temperatures. Using these data, write the equation that gives F in terms of C.

Celsius/ $^{\circ}$ C	Fahrenheit/ $^{\circ}$ F	Celsius/ $^{\circ}$ C	Fahrenheit/ $^{\circ}$ F
-50 $^{\circ}$	-58 $^{\circ}$	5 $^{\circ}$	41 $^{\circ}$
-45 $^{\circ}$	-49 $^{\circ}$	10 $^{\circ}$	50 $^{\circ}$
-40 $^{\circ}$	-40 $^{\circ}$	15 $^{\circ}$	59 $^{\circ}$
-35 $^{\circ}$	-31 $^{\circ}$	20 $^{\circ}$	68 $^{\circ}$
-30 $^{\circ}$	-22 $^{\circ}$	25 $^{\circ}$	77 $^{\circ}$
-25 $^{\circ}$	-13 $^{\circ}$	30 $^{\circ}$	86 $^{\circ}$
-20 $^{\circ}$	-4 $^{\circ}$	35 $^{\circ}$	95 $^{\circ}$
-15 $^{\circ}$	5 $^{\circ}$	40 $^{\circ}$	104 $^{\circ}$
-10 $^{\circ}$	14 $^{\circ}$	45 $^{\circ}$	113 $^{\circ}$
-5 $^{\circ}$	23 $^{\circ}$	50 $^{\circ}$	122 $^{\circ}$
0 $^{\circ}$	32 $^{\circ}$	55 $^{\circ}$	131 $^{\circ}$