



### 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/ $^{\circ}\text{C}$	Fahrenheit/ $^{\circ}\text{F}$	Celsius/ $^{\circ}\text{C}$	Fahrenheit/ $^{\circ}\text{F}$
-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 $^{\circ}$