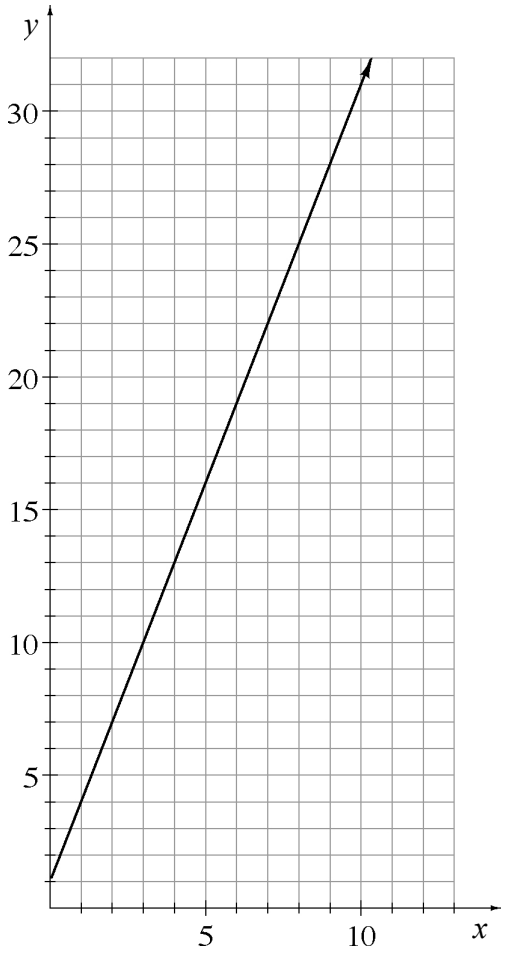
A taxi charges \$1 to begin with, and \$3 for each mile traveled. y is the amount charged for traveling x miles.

$$y = 3x + 1$$

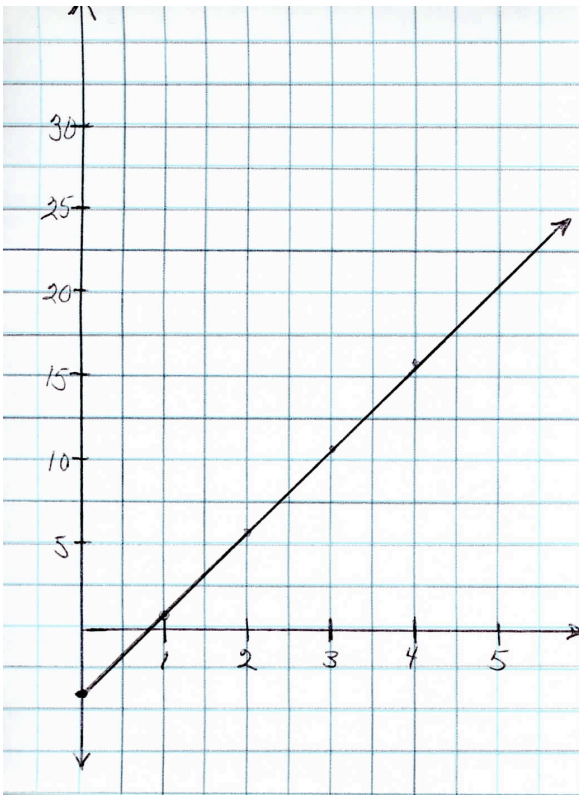
x	y
1	4
2	7
3	10
4	13
5	16
6	19
7	22
8	25
9	28
10	31



Diane owed $4 at the start of the month. She managed to save $5 each week. y is the amount of money she had after x weeks.

$$y=5x-4$$

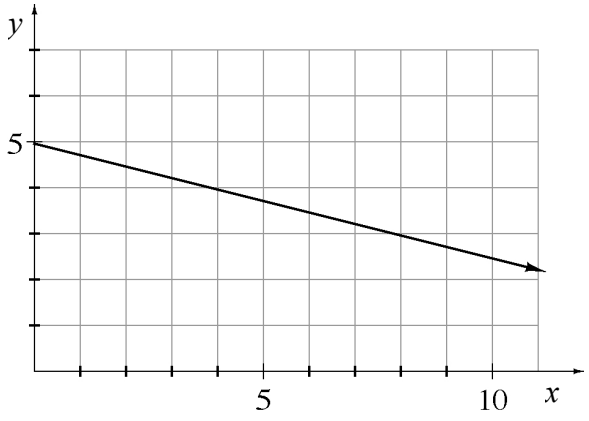
x	y
0	–4.00
1	1.00
2	6.00
3	11.00
4	16.00
5	21.00
6	26.00
7	31.00
8	36.00
9	41.00
10	46.00



Carl bought 5 pounds of coffee and drank 0.25 pounds each day. y is the amount of coffee he had after x days.

$$y=5-0.25x$$

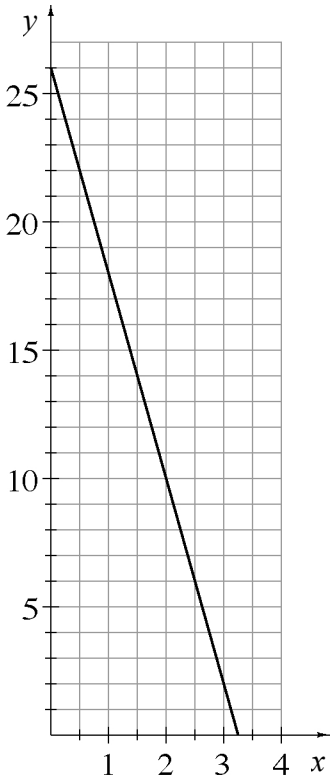
x	y
0	5.00
1	4.75
2	4.50
3	4.25
4	4.00
5	3.75
6	3.50
7	3.25
8	3.00
9	2.75
10	2.50



Lisa was running a 26-mile marathon and she paced herself so she ran about 8 miles an hour. y is the number of miles she had left to run after x hours.

$$y=26-8x$$

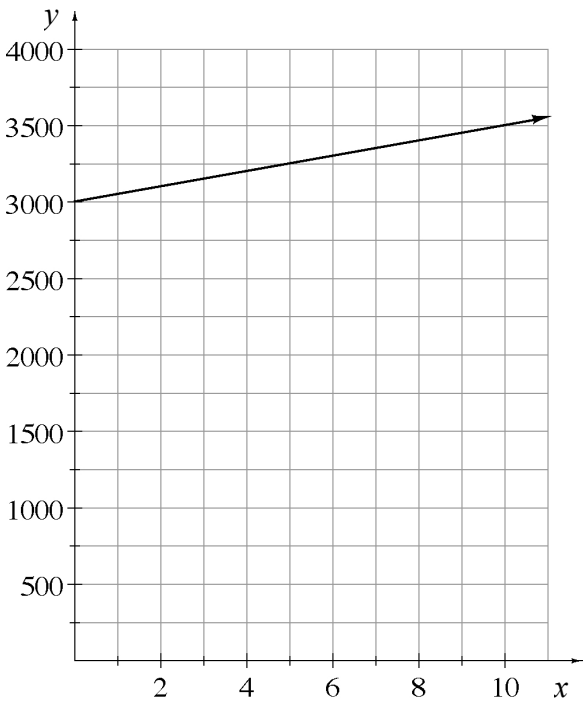
x	y
0.00	26
0.25	24
0.50	22
0.75	20
1.00	18
1.25	16
1.50	14
1.75	12
2.00	10
2.25	8
2.50	6
2.75	4
3.00	2
3.25	0



Arlan had \$3,000 in his saving account and was saving \$50 per week. y is the total amount in his account after x weeks.

$$y = 50x + 3000$$

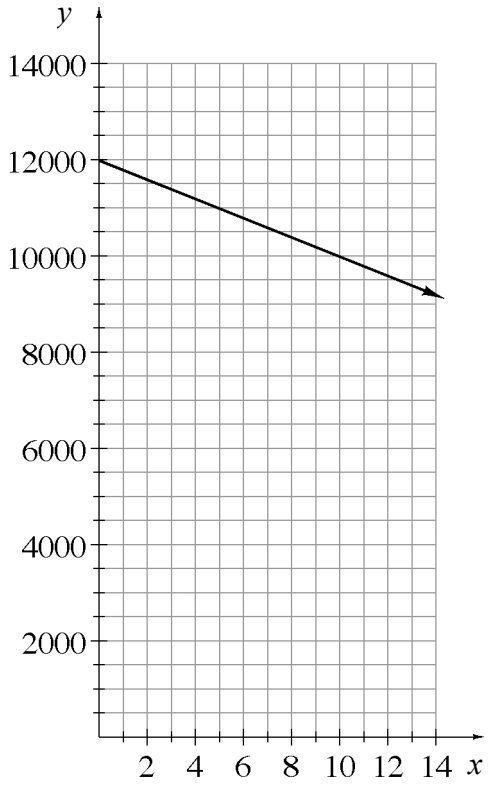
x	y
0	3000
1	3050
2	3100
3	3150
4	3200
5	3250
6	3300
7	3350
8	3400
9	3450
10	3500



Sylvia had $12,000 in her saving account and was spending at a rate of $200 each week. y is the amount in her account after x weeks.

$$y=12000-200x$$

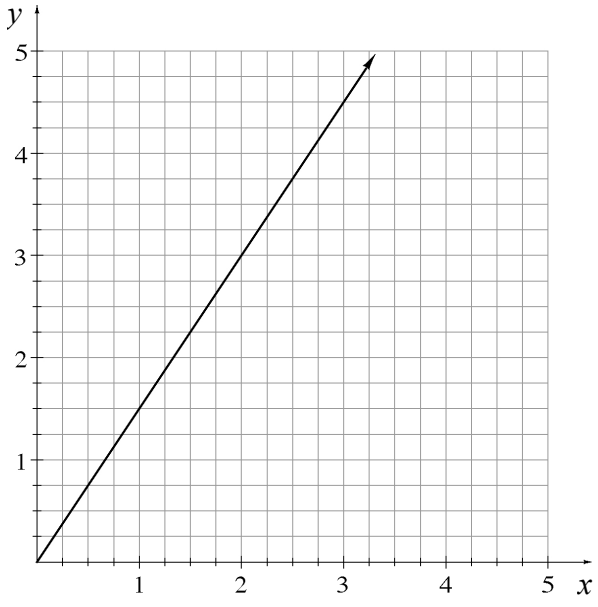
x	y
0	12000
1	11800
2	11600
3	11400
4	11200
5	11000
6	10800
7	10600
8	10400
9	10200
10	10000



Roger left his apartment walking at a rate of about 1.5 miles per hour. y is his distance from the apartment after x hours.

$$y=1.5x$$

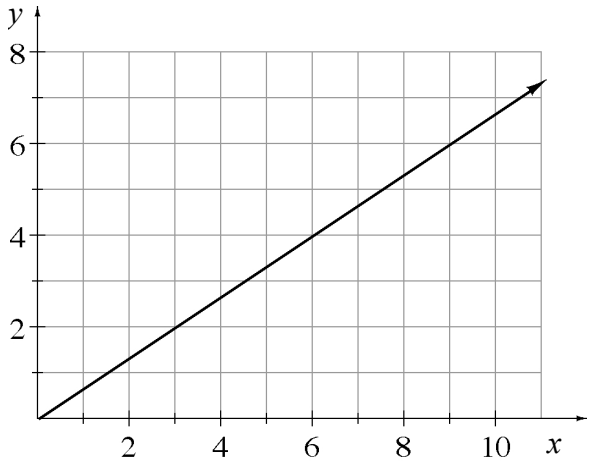
x	y
0.00	0.00
0.25	0.38
0.50	0.75
0.75	1.13
1.00	1.50
1.25	1.88
1.50	2.25
1.75	2.63
2.00	3.00
2.25	3.38
2.50	3.75
2.75	4.13
3.00	4.50



Alonzo needs two-thirds of a cup of chopped walnuts for each batch of brownies he makes.
y = the total number of cups of nuts needed for x batches of brownies.

$$y=\frac{2}{3}x$$

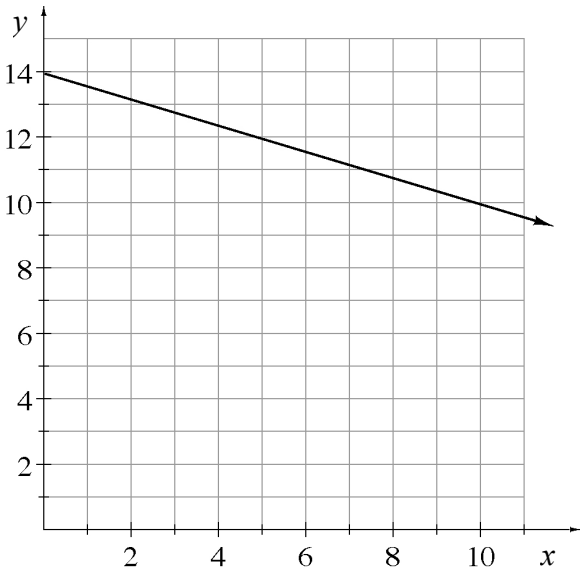
x	y
1	0.67
2	1.33
3	2.00
4	2.67
5	3.33
6	4.00
7	4.67
8	5.33
9	6.00
10	6.67



Alex only uses his car to commute to work. He starts with a full tank of 14 gallons, and uses about 0.4 gallons of gas to drive back and forth from work each day. y is the number of gallons left in the tank after x days.

$$y=14-0.4x$$

x	y
0	14
1	13.6
2	13.2
3	12.8
4	12.4
5	12
6	11.6
7	11.2
8	10.8
9	10.4
10	10



Kyle bought \$10 worth of chips to play roulette and is losing an average rate of \$0.75 per spin on the wheel. y is the amount he has left after x spins of the roulette wheel.

$$y=10-0.75x$$

x	y
1	9.25
2	8.50
3	7.75
4	7.00
5	6.25
6	5.50
7	4.75
8	4.00
9	3.25
10	2.50