

LESSON

Practice C

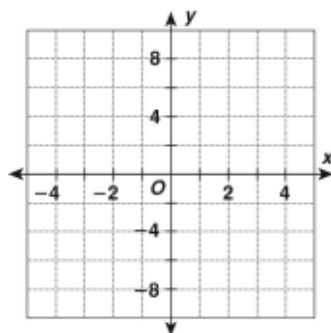
3-2

Functions

Complete the table and then graph the function. Then give the domain and range of the function.

1. $y = -3x + 2$

x	$-3x + 2$	y
-2		
-1		
0		
1		
2		



Domain:

Range:

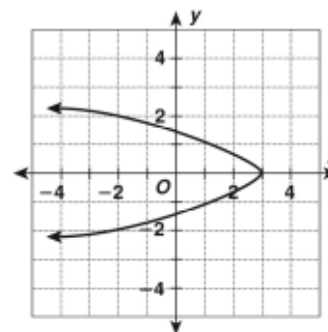
Determine if each relation represents a function.

2.

x	y
0	0
1	-1
1	1
4	-2
4	2

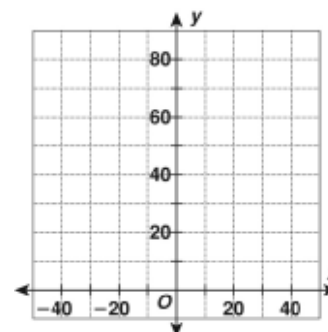
3. $y = -0.5x - 1$

4.



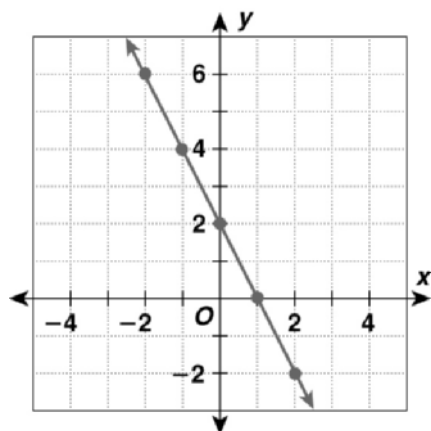
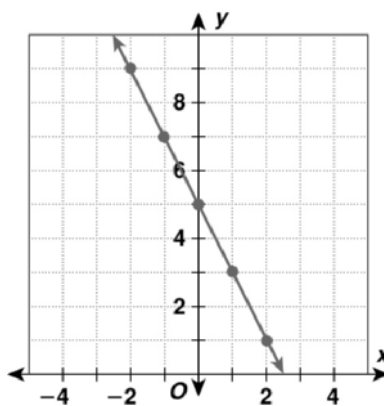
5. The formula for converting degrees Fahrenheit to degrees Celsius is $F = \frac{9}{5}C + 32$. Complete the table and then graph the function.

C	$F = \frac{9}{5}C + 32$	F
10		
25		
-20		
0		



5.

x	$-2x + 2$	y
-2	$-2(-2) + 2$	6
-1	$-2(-1) + 2$	4
0	$-2(0) + 2$	2
1	$-2(1) + 2$	0
2	$-2(2) + 2$	-2



6. yes

7. no

Practice B

1. Domain: -15, -7.5, 0, 7.5

Range: 15, 45, 75, 105

2. Domain: 0.30, 0.31, 0.32, 0.33, 0.34

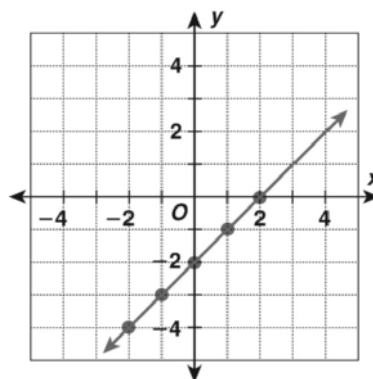
Range: -4, -2, 0, 1, 3

3.

x	$-2x + 5$	y
-2	$-2(-2) + 5$	9
-1	$-2(-1) + 5$	7
0	$-2(0) + 5$	5
1	$-2(1) + 5$	3
2	$-2(2) + 5$	1

4.

x	$x - 2$	y
-2	$-2 - 2$	-4
-1	$-1 - 2$	-3
0	$0 - 2$	-2
1	$1 - 2$	-1
2	$2 - 2$	0



5. yes

6. yes

7. no

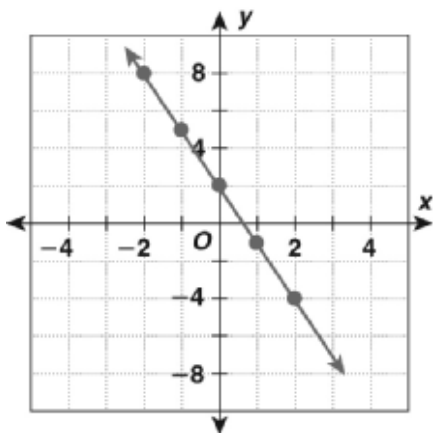
Practice C

1.

x	$-3x + 2$	y
-2	$-3(-2) + 2$	8
-1	$-3(-1) + 2$	5
0	$-3(0) + 2$	2
1	$-3(1) + 2$	-1
2	$-3(2) + 2$	-4

Domain: All numbers

Range: All numbers



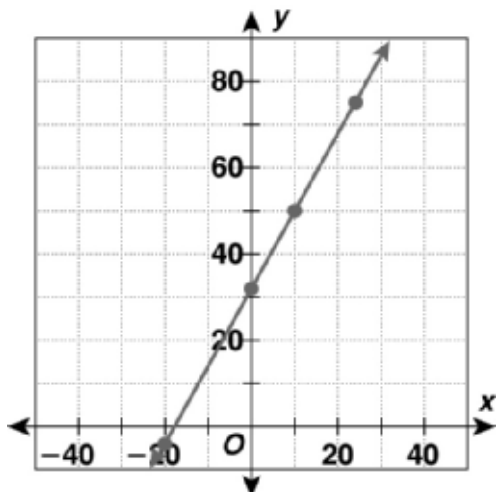
2. no

3. yes

4. no

5.

C	$F = \frac{9}{5}C + 32$	F
10	$\frac{9}{5}(10) + 32$	50
25	$\frac{9}{5}(25) + 32$	77
-20	$\frac{9}{5}(-20) + 32$	-4
0	$\frac{9}{5}(0) + 32$	32



Review for Mastery

1. -1, -2, -3;

1, 3, 5

2. a, b, c;

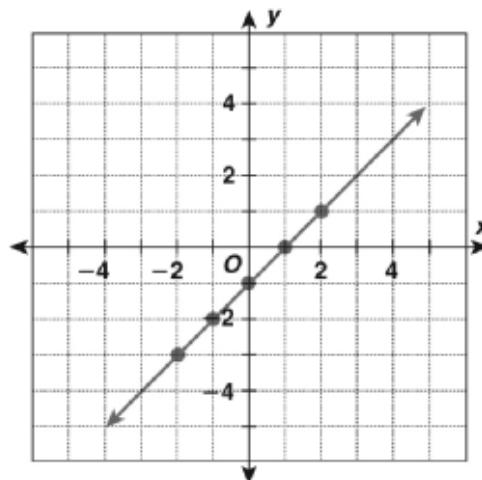
1, 2, 3

3. Yes; a, b, c each have one partner, d.

4. No; a has two partners, d and e.

5.

x	$x - 1$	y
-2	$-2 - 1 = -3$	-3
-1	$-1 - 1 = -2$	-2
0	$0 - 1 = -1$	-1
1	$1 - 1 = 0$	0
2	$2 - 1 = 1$	1



6.

x	$2x + 1$	y
-2	$2(-2) + 1 = -3$	-3
-1	$2(-1) + 1 = -1$	-1
0	$2(0) + 1 = 1$	1
1	$2(1) + 1 = 3$	3
2	$2(2) + 1 = 5$	5