

# CHAPTER 2

## Functions: Understanding Rates of Change

### Getting Started, p. 66

1. The slope between two points can be found by dividing the change in  $y$  by the change in  $x$ ,  $\frac{\Delta y}{\Delta x}$ .

a)  $\frac{7 - 3}{5 - 2} = \frac{4}{3}$

b)  $\frac{5 - (-1)}{-4 - 3} = -\frac{6}{7}$

2. a)  $-1 - 1 = -2$   
 $-5 - (-1) = -4$   
 $-13 - (-5) = -8$   
 $-29 - (-13) = -16$   
 $-61 - (-29) = -32$

Each successive first difference is 2 times the previous first difference. The function is exponential.

b) First differences

$$\begin{aligned} 11 - 0 &= 11 \\ 28 - 11 &= 17 \\ 51 - 28 &= 23 \\ 80 - 51 &= 29 \\ 115 - 80 &= 35 \end{aligned}$$

Second differences

$$\begin{aligned} 17 - 11 &= 6 \\ 23 - 17 &= 6 \\ 29 - 23 &= 6 \\ 35 - 29 &= 6 \end{aligned}$$

The second differences are constant so the function is quadratic.

3. a)  $0 = 2x^2 - x - 6$   
 $0 = (2x + 3)(x - 2)$   
 $0 = 2x + 3$  and  $0 = x - 2$   
 $0 - 3 = 2x + 3 - 3$   
 $-3 = 2x$   
 $-\frac{3}{2} = x$   
 $0 + 2 = x - 2 + 2$   
 $2 = x$

The zeros are  $-\frac{3}{2}$  and 2.

b)  $0 = 2^x - 1$   
 $0 + 1 = 2^x - 1 + 1$   
 $1 = 2^x$

Any non-zero number raised to the exponent of 0 is 1, so  $x = 0$ .

c)  $0 = \sin(x - 45^\circ)$ ,  $0^\circ \leq x \leq 360^\circ$

$\sin(0^\circ)$ ,  $\sin(180^\circ)$ , and  $\sin(360^\circ) = 0$ .

$0^\circ = x - 45^\circ$ ,  $180^\circ = x - 45^\circ$ , and  $360^\circ = x - 45^\circ$

$0^\circ + 45^\circ = x - 45^\circ + 45^\circ$

$45^\circ = x$

$180^\circ + 45^\circ = x - 45^\circ + 45^\circ$

$225^\circ = x$

$360^\circ + 45^\circ = x - 45^\circ + 45^\circ$

$405^\circ = x$

Because  $0^\circ \leq x \leq 360^\circ$ ,  $405^\circ$  cannot be a zero. The zeros are  $45^\circ$  and  $225^\circ$ .

d)  $0 = 2 \cos(x)$

$0 = \cos(x)$

For  $-360^\circ \leq x \leq 0^\circ$ ,  $\cos(-90^\circ) = 0$  and

$\cos(-270^\circ) = 0$ .

The zeros are  $-90^\circ$  and  $-270^\circ$ .

4. a)  $f(x)$  is compressed vertically by a factor of  $\frac{1}{3}$ .

b)  $f(x)$  is stretched vertically by a factor of 2 and translated right 4 units.

c)  $f(x)$  is stretched vertically by a factor of 3, reflected in the  $x$ -axis, and translated up 7 units.

d)  $f(x)$  is stretched vertically by a factor of 5,

translated right 3 units, and translated down 2 units.

5. a) \$1000 is  $P$ ; 8% or 0.08 is  $r$ .  $1 + r$  is 1.08.

$n$  is  $t$ .  $A = P(1 + r)^n$  becomes  $A = 1000(1.08)^t$

b)  $t$  is 3.  $A = 1000(1.08)^3$  or \$1259.71

c) No, since the interest is compounded each year you earn more interest than the previous year. The interest earns interest.

6. a)  $y = \sin x$  is a maximum at  $90^\circ$  so  $15^\circ t = 90^\circ$  or  $t = 6$ .

$h(6) = 8 + 7 \sin(15^\circ \times 6)$ .  $h(6) = 15$  m.  $y = \sin x$  is a minimum at  $270^\circ$  so  $15^\circ t = 270^\circ$  or  $t = 18$ .

$h(18) = 8 + 7 \sin(15^\circ \times 18)$ .  $h(18) = 1$  m.

b) The period of  $y = \sin x$  is  $360^\circ$ .

$15^\circ t = 360^\circ$  or  $t = 24$  s.

c)  $t = 30$ .  $h(30) = 8 + 7 \sin(15^\circ \times 30)$ .

$h(30) = 15$  m.

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**Jessica J Manson**



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