

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 , $\frac{\Delta y}{\Delta x}$.

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

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

$$\begin{aligned} \text{2. a) } & -1 - 1 = -2 \\ & -5 - (-1) = -4 \\ & -13 - (-5) = -8 \\ & -29 - (-13) = -16 \\ & -61 - (-29) = -32 \end{aligned}$$

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.

$$\begin{aligned} \text{3. a) } 0 &= 2x^2 - x - 6 \\ 0 &= (2x + 3)(x - 2) \\ 0 &= 2x + 3 \text{ and } 0 = x - 2 \\ 0 - 3 &= 2x + 3 - 3 \\ -3 &= 2x \\ -\frac{3}{2} &= x \\ 0 + 2 &= x - 2 + 2 \\ 2 &= x \end{aligned}$$

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

$$\begin{aligned} \text{b) } 0 &= 2^x - 1 \\ 0 + 1 &= 2^x - 1 + 1 \\ 1 &= 2^x \end{aligned}$$

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

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

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

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

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

$$45^\circ = x$$

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

$$225^\circ = x$$

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

$$405^\circ = x$$

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

$$\text{d) } 0 = 2 \cos(x)$$

$$0 = \cos(x)$$

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

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

The zeros are -90° and -270° .

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° 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° 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° .

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

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

$$h(30) = 15 \text{ m.}$$

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