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

$$11 - 0 = 11$$

 $28 - 11 = 17$
 $51 - 28 = 23$
 $80 - 51 = 29$
 $115 - 80 = 35$

Second differences

$$17 - 11 = 6$$

 $23 - 17 = 6$
 $29 - 23 = 6$
 $35 - 29 = 6$

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 $-\frac{1}{2}$ and 2.

b)
$$0 = 2^{r} - 1$$

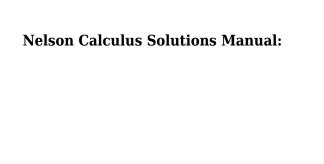
 $0 + 1 = 2^{t} - 1 + 1$
 $1 = 2^{t}$

Any non-zero number raised to the exponent of 0 is L, so x = 0.c) $0 = \sin(x - 45^\circ)$, $0^\circ \le x \le 360^\circ$ $\sin (0^{\circ})$, $\sin (180^{\circ})$, 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 $0^{\circ} \le x \le 360^{\circ}$, 405° cannot be a zero. The zeros are 45° and 225°. $d = 2 \cos(x)$ $0 = \cos(x)$ For $-360^{\circ} \le x \le 0^{\circ}$, $\cos (-90^{\circ}) = 0$ and $\cos(-270^{\circ}) = 0.$ The zeros are -90° and -270° . 4. a) f(x) is compressed vertically by a factor of \(\frac{1}{2}\). b) f(x) is stretched vertically by a factor of 2 and translated right 4 units. e) 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. a) \$1000 is P. 8% or 0.08 is i. 1 + i is 1.08. n is t. $A = P(1 + i)^n$ becomes $A = 1000(1.08)^n$ 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 r = 6. $h(6) = 8 + 7 \sin(15^{\circ} \times 6)$. $h(6) = 15 \text{ m. } y = \sin x$ is a minimum at 270° so $15^{\circ}t = 270^{\circ}$ or t = 18. $h(18) = 8 + 7 \sin(15^{\circ} \times 18), h(18) = 1 \text{ m}.$ b) The period of $y = \sin x$ is 360° . $15^{\circ}t = 360^{\circ} \text{ or } t = 24 \text{ s.}$ e) t = 30. $h(30) = 8 + 7 \sin(15^{\circ} \times 30)$.

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

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