

Directions: Find the average rate of change for the following functions on the given intervals. Show all work.

1. $f(x) = x^2 - x$ on $[-2, -1]$

$$\frac{f(b) - f(a)}{b - a} = \frac{f(-1) - f(-2)}{-1 - (-2)}$$

$$\frac{f(-1) - f(-2)}{-1 - (-2)} = \frac{0 - (-2)}{-1 - (-2)} = \frac{2}{-1} = -2$$

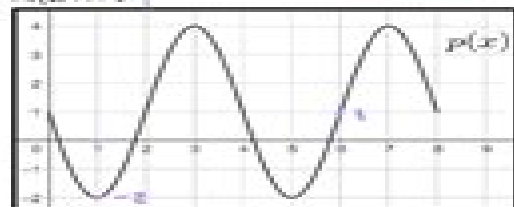
Answer: -2

3. $h(x) = \sqrt{4x+1}$ on $[2, 12]$

$$\frac{h(12) - h(2)}{12 - 2} = \frac{\sqrt{4(12)+1} - \sqrt{4(2)+1}}{12 - 2}$$

$$\frac{h(12) - h(2)}{12 - 2} = \frac{\sqrt{48+1} - \sqrt{8+1}}{12 - 2} = \frac{\sqrt{49} - \sqrt{9}}{10} = \frac{7 - 3}{10} = \frac{4}{10} = \frac{2}{5}$$

Answer: $\frac{2}{5}$ or 0.4



5. $p(x)$ on $[1, 6]$

$$\frac{p(6) - p(1)}{6 - 1} = \frac{6 - 1}{6 - 1} = \frac{5}{5} = 1$$

Answer: $\frac{5}{5}$

7. Selected values for the function $f(x)$ are shown in the table above. Find the average rate of change for $f(x)$ from $x = 1$ to $x = 8$.

$$\frac{f(8) - f(1)}{8 - 1} = \frac{3 - (-2)}{8 - 1} = \frac{5}{7}$$

Answer: $\frac{5}{7}$ or 0.71

x	-3	1	4	8
$f(x)$	0	-2	7	3

8. Estimate the rate of change of each function at the given point.

a) $f(x) = \frac{1}{3x}$ at $x = 4$

$$\frac{f(4.001) - f(4)}{4.001 - 4} = \frac{\frac{1}{3(4.001)} - \frac{1}{3(4)}}{4.001 - 4} = \frac{\frac{1}{12.003} - \frac{1}{12}}{0.001} = \frac{\frac{12 - 12.003}{12 \cdot 12.003}}{0.001} = \frac{-0.003}{144.036} \cdot 1000 = -0.002$$

Answer: $-\frac{1}{12}$ or -0.083

b) $f(x) = 2x^2 + 1$ at $x = -2$

$$\frac{f(-2.001) - f(-2)}{-2.001 - (-2)} = \frac{f(-2.001) - f(-2)}{-0.001}$$

$$\frac{2(-2.001)^2 + 1 - (2(-2)^2 + 1)}{-0.001} = \frac{2(4.004001) + 1 - (8 + 1)}{-0.001} = \frac{8.008002 + 1 - 9}{-0.001} = \frac{-0.991998}{-0.001} = 991.998$$

Answer: 8

9. State whether the situation represents a positive or negative rate of change.

a) A candy company uses pints of chocolate to make candy. The more chocolate they use, the more boxes of candy are produced. *This situation is a positive ROC due to the way chocolate (x) is increasing, and the boxes of candy being sold (f(x)) are increasing as well.*

b) The amount of money in Josh's savings account decreases for each semester he attends college. *This situation is a negative ROC due to Josh's savings (x) are decreasing as he pays for his college semester (f(x)).*

2. $g(x) = 4x + 7$ on $[2, 5]$

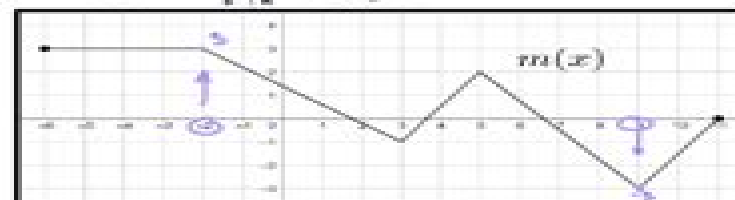
$$\frac{g(5) - g(2)}{5 - 2} = \frac{27 - 15}{5 - 2} = \frac{12}{3} = 4$$

Answer: 4

4. $k(x) = \frac{x+1}{x-3}$ on $[4, 10]$

$$\frac{k(10) - k(4)}{10 - 4} = \frac{\frac{10+1}{10-3} - \frac{4+1}{4-3}}{10 - 4} = \frac{\frac{11}{7} - 5}{6} = \frac{\frac{11 - 35}{7}}{6} = \frac{-24}{42} = -\frac{4}{7}$$

Answer: $-\frac{4}{7}$ or -0.5714



6. $m(x)$ on $[-2, 9]$

$$\frac{m(9) - m(-2)}{9 - (-2)} = \frac{-3 - 3}{9 - (-2)} = \frac{-6}{11}$$

Answer: $-\frac{6}{11}$

Corrected this answer (1/10/24)

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ML Morrison



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