

Calculate Average Rate of Change. REVIEW for Friday, January 20, 2022 TEST

Write the equation of Parallel and Perpendicular Lines.

1) Find the average rate of change over the interval [1,3.5].

x	1	2	3	3.5	3.7	6
y	40	25	18	15	18	38

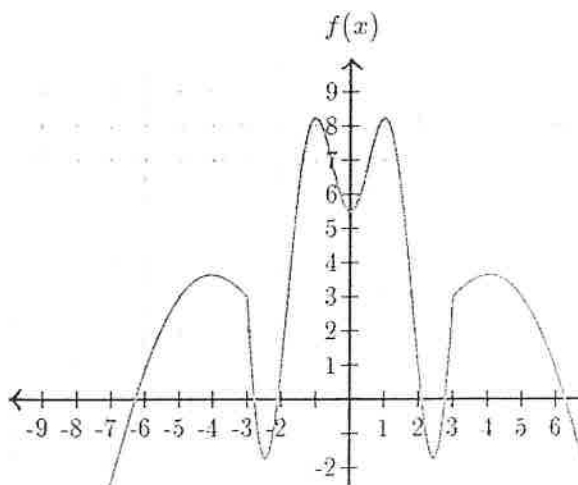
2) Find the average rate of change for $f(x)$ over the interval [-1,4].

$$f(x) = 2x^2 - 3x + 1$$

Notes:

Notes:

3) Find the average rate of change over the interval [-3,0].

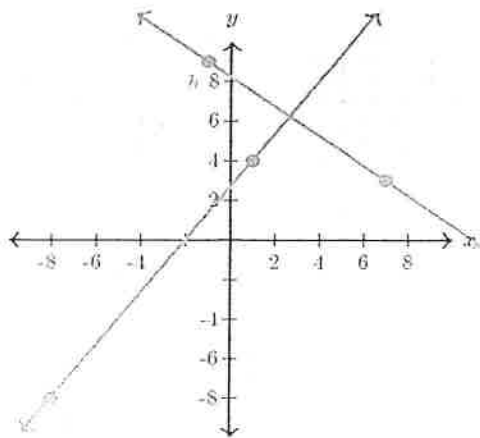


4) Find the slope of line a _____

Find the slope of line b _____

Determine the relationship between lines a and b shown on the graph below. Circle ONE choice.

- a) Parallel
- b) Perpendicular
- c) No Relation

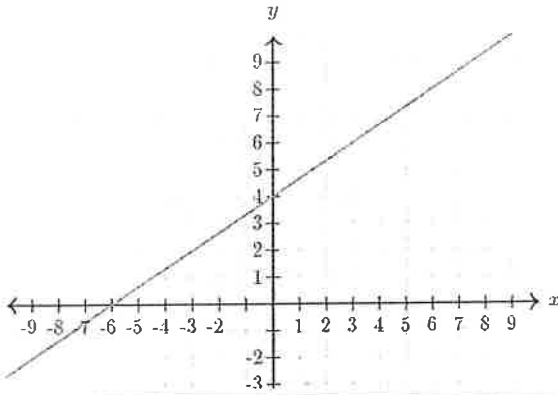


Name: _____

January 19, 2022 OR January 20, 2022

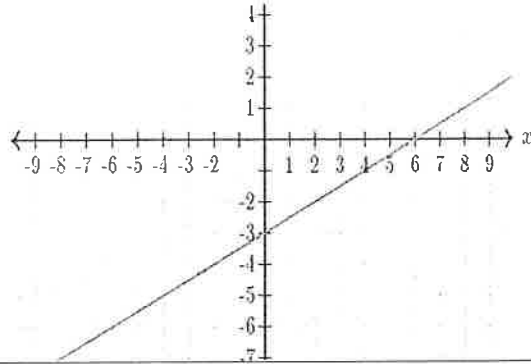
	Notes:
5) Write the equation of a line that is parallel to $y = -2x + 4$ and passes through the point $(1,0)$.	6) Write the equation of a line that is perpendicular to the line $y = -\frac{2}{3}x + 2$ and passes through the point $(6, -2)$.
Notes:	Notes:
7) Write the equation of a line that is parallel to $2x + 5y = 9$ and passes through the point $(-1,4)$.	8) Write the equation of a line that passes through the point $(3,7)$ and is perpendicular to $-10x + 5y = 2$.
Notes:	Notes:

9) Write the equation of a line that is parallel to the line shown and passes through the point $(-5, 3)$.



Notes:

10) Write the equation of a line that is perpendicular to the line shown and passes through the point $(8, -2)$.



Notes:

11) Write the equation of a line that passes through $(1, 5)$ and is parallel to a line that connects the points $(-1, 3)$ and $(2, -5)$.

12) Select all functions below that are parallel to $y = -\frac{5}{4}x - 3$.

- $4x - 5y = 12$
- $y = \frac{5}{4}x - 3$
- $y = .8x - 1$
- $5x - 4y = 12$
- $y = \frac{4}{5}x + 8$
- $y = -\frac{4}{5}x - 2$

Notes:

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