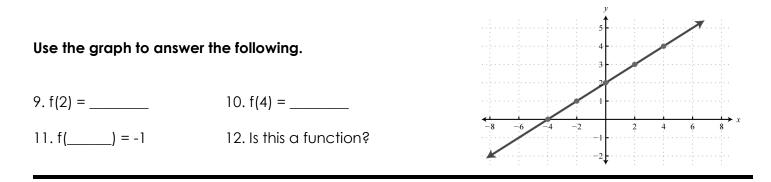
Review Worksheet for the Unit 2C Test

Name	Date				
For each of the functions find the following characteristics.					
	2. Graph: y = - ¹ / ₂ x + 2				
Domain:	Domain:				
Range:	Range:				
x – intercept(s):	x – intercept(s):				
y – intercept(s):	y – intercept(s):				
Circle one:	Circle one:				
Increasing OR Decreasing	Increasing OR Decreasing				
Slope:	Slope:				
Equation:					
End Behavior: As $x \rightarrow \infty$, $y \rightarrow$	End Behavior: As $x \rightarrow \infty$, $y \rightarrow$				
As x→−∞,y→	As x→ -∞ ,y→				

Function Notation. Find the following using the three given functions.

 $f(x) = 2x - 4 \qquad g(x) = x^{3} - 8 \qquad h(x) = x^{2} - 3x$ 3. g(6)
4. h(-2)
5. f(5x+6)
6. 3g(x)
7. 2h(x) + 4g(x)
8. f(x) - h(x)



Determine whether the relation is a function. If it is a function, state the domain and range

Find the rate of change.

- 15. (6,-3),(8,-2)16. $f(x) = -2x + 4, -3 \le x \le 2$.
- 17. From 2 years to 4 years.

t (Years)	1	2	3	4
f(†)	4	8	10	16

18. g(x) = 3x - 2 when $x_1 = 0$ and $x_2 = 4$.

Sequences

19. Use the sequence to answer the following questions: 4.5, 3.3, 2.1, ... A. $a_6 =$ B. Recursive form:

C. Explicit/Closed Formula:

D. a₄₀=

- 20. Use the sequence to answer the following questions: $a_1 = 8$
 - A. First 5 terms

 $a_n = a_{n-1} + 4$ B. Common difference:

C. Explicit/Closed Form:

D. a₇₂ =