Name	Period
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#### Summative Assessment

F-IF.4 Interpret key features of a function graphically

A-REI.12 Graph the solutions to linear equations and inequalities in two variables

**BF.A.1** Building Functions

Slope-Intercept Form Review

Calculations

Total

### 8A Unit 2 Pre-Test & Study Guide CALCULATOR ALLOWED

BE SURE TO SHOW WORK TO JUSTIFY YOUR ANSWERS!

1. A) Rewrite the equation 14x-12y=42 in slope-intercept form review)

B) Identify the slope and y-intercept. (slope-intercept form review)

C) Create a real world situation that is realistic and represents the slope and the y-intercept. (slope-intercept form review)

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6. Find the value of x so that the function has the given value. Show work. (F-IF.2) g(x) = 102x-7.98; -39.6

7. On January 1, Mary had a savings account balance of \$1,527 and by April 1, her balance had increased to \$2,478. What was her average rate of change? Be sure to include units in your answer. Show work. (BF.A.1)

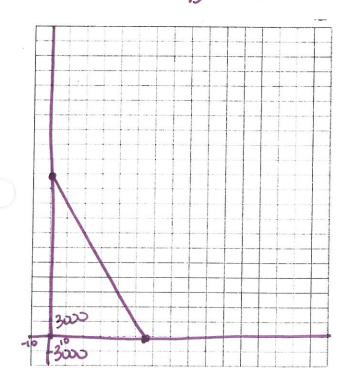
\$ 317 month

Labels count

- 8. In 1998, the population of Bakersfield was 32,956, and it has been  $\frac{\text{decreasing}}{\text{people}}$  by 620 people each year.
- a) Write an equation to show the indicated relationship. (BF.A.1)

Y=-620x + 32956

- b) Graph the equation. (A-REI.12)
- c) Find the slope and y-intercept. (F.IF.4)  $M = -620 \longrightarrow 0 \times 1$  V = 32956



no arrows Straight

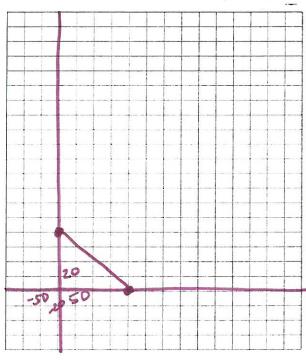
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9. Your school biology club is organizing a pancake breakfast to raise \$400 for a trip to an aquarium. The club decides to charge \$2 for each child's ticket and \$5 for each adult's ticket.

a) Write an equation to show the indicated relationship. (BF.A.1)

2x+54 =400

b) Graph the equation using x- and y- intercepts only. (A-REI.12) (200,0) (0,00)



no arrows
intervals
X + 4 intercepts only
Straight

Name	Period

#### **Summative Assessment**

F-IF.4 Interpret key features of a function graphically

A-REI.12 Graph the solutions to linear equations and inequalities in two variables

**BF.A.1** Building Functions

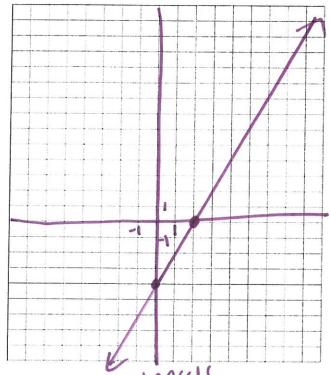
Slope-Intercept Form Review

Calculations

Total

# 8A Unit 2 Studyguide and Pre-test NO CALCULATOR ALLOWED

- 1. A) Graph the equation below. 4x-2y = 8 (A.REI.12)
  - B) Identify the intercepts. (F.IF.4)



intervals Or DWS Straight Continuous Marght Straight (0,-4)

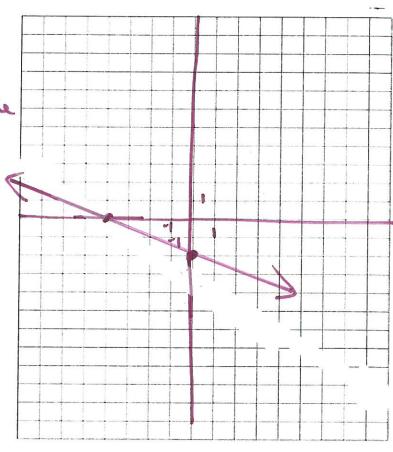
2. Graph the line using any method you've learned. Show any work. (A.REI.12) 2x + 4y + 8 = 0

(-4,0) (0,-2

Y=-=x+2

make x / y table

anous interest straight



## For 3 and 4, determine if each is true or false. If false, correct the statement to make it true.

3. The equation y = -2 creates a line with undefined slope. (F.IF.4)

TRUE

**FALSE** 

4. The equation

 $y = -\frac{2}{3}x + 5$  creates a line that rises from left to right. (F.IF.4)

5. Write the equation of a horizontal line passing through the point (8,0)

(F.IF.4)

6. Find the slope of the line passing through the points (-2, 3) (4, 10). Show work. (Slope-intercept form review)

7. Write the equation of the line passing through the points (3,0) and (8, 2). Show work. (BF.A.1)

Y- = x - =

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Name	Period	

8. Write the equation of the line that passes through F(3) = -6 and F(2) = -8. Show work. (BF.A.1)

Y= 2x-12

9. Compare the parent function with p(x) = 4x+6 without graphing.(transformations)

vertical stretch bat

10. Compare the parent function  $g(x) = -\frac{1}{2}x$  without graphing. (transformations)

vertical shrink bat t

11. Compare the parent function with h(x) = 2.3x-4 without graphing. (transformations)

Vertical stretch Waf 2.3 translete down 4

12. Determine whether each equation represents direct variation. Show work. (BF.A.1))

a) 2x = -3y + 4

- b) 12x-16y = -4
- c) -3x-2y = 6

NO

- No
- ) |

13. Write a direct variation equation when x = 6 and y = -2. Show work. (BF.A.1)

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