7th Grade
April 27, 2021

Today we will:

-Review HW

-Work on study guide

-Organize binder/ check study guide with any extra time

HOMEWORK:

Complete and check study guide on my Weebly

7L: Test and binder check TOMORROW

7R: Test and binder check Thursday

ALEKS time and topics assignment due next Monday

April 27, 2021

HOMEWORK

Name _____

Unit ___ Lesson _____ Due Date _____

Lesson 5 Homework Practice

Slope-Intercept Form $y = mx + b$

*For #2 and #3, you need to subtract the x term on both sides (like I did in the video) so that you have the form y = mx + b.

State the slope and the *y*-intercept of the graph of each line.

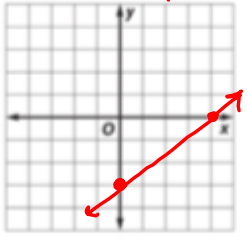
1. $y = -\frac{1}{2}x + \frac{3}{4}$ $m = -\frac{1}{2}$ $b = \frac{3}{4}$

2. $3x + y = 8$ $-3x \quad -3x$ $y = -3x + 8$ $m = -3$ $b = 8$

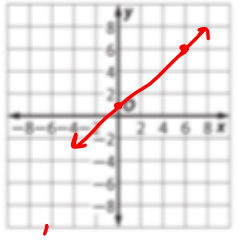
3. $y - 4x = 6$ $+4x \quad +4x$ $y = 4x + 6$ $m = 4$ $b = 6$

Graph each equation using the slope and *y*-intercept.

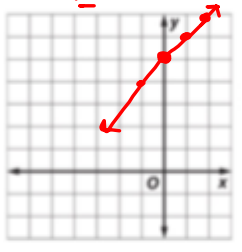
4. $y = \frac{3}{4}x - 3$ $m = \frac{3}{4}$ $b = -3$



5. $y = \frac{5}{6}x + 1$

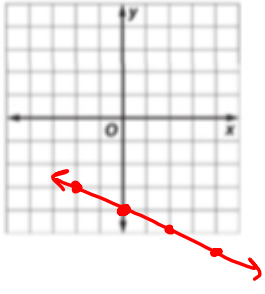


6. $y = x + 5$ $m = \frac{1}{1}$

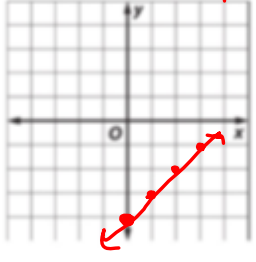


$m = -\frac{1}{2} \div \frac{-1}{2} = \frac{1}{-2}$

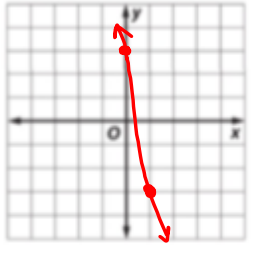
7. $y = -\frac{1}{2}x - 4$ $b = -4$



8. $y = x - 4$ $m = 1 = \frac{1}{1}$ $b = -4$



9. $y = -6x + 3$ $m = -6 = -\frac{6}{1}$ $b = 3$



10. A person weighing 150 pounds burns about 320 Calories per hour walking at a moderate pace. Suppose that the same person burns an average of 1500 Calories per day through basic activities. The total Calories y burned by that person can be represented by the equation $y = 320x + 1500$, where x represents the number of hours spent walking.

$y = mx + b$

a. Graph the equation using the slope and *y*-intercept.

$x = 1$

$y = 1{,}820$

b. State the slope and *y*-intercept of the graph of the equation and describe what they represent.

$m = 320$ (cal per hour)

$b = 1500$ (cal per day)

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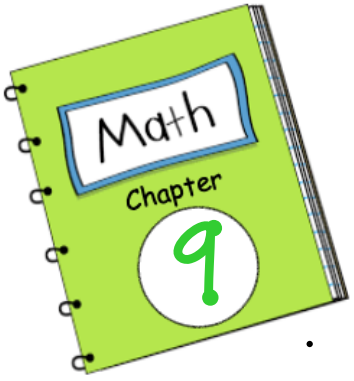

TITLE: Functions

Date	Lesson	Topic/Assignment
4/12	1	Functions Video Notes
4/13	1	HOMEWORK: Pg 387 WS
4/13	1	CLASSWORK: Skills Practice WS
4/14	2	Rep of Functions Video Notes and In-Class Notes
4/15	2	HOMEWORK: Pg 393 WS
4/15	2	HOMEWORK: Skills Practice WS
4/19	2	CLASSWORK: Skills Practice WS
4/20	3	Slope Video Notes
4/21	3	HOMEWORK: Reteach and HW Practice WS
4/22	4	Direct Variation Video and Class Notes
4/23	4	HOMEWORK: Skills WS
4/23	5	Slope-Intercept Form Video Notes
4/26	5	HOMEWORK: Reteach and HW Practice WS
4/28	ALL	Unit 9 Study Guide

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Name:_____ Class:_____ Date:_____

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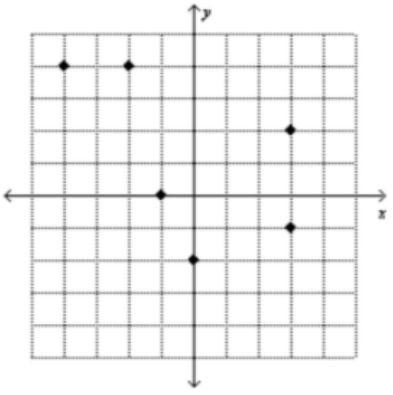
1. Is the relation a function? Write Yes or No. Then tell why or why not.

a.



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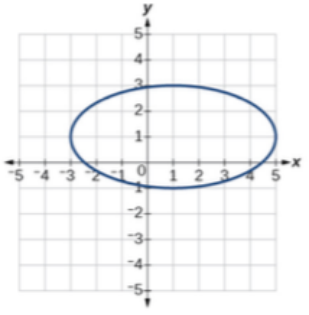
b.



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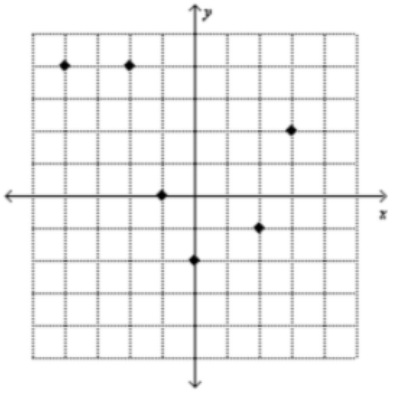
c.



_____

2. Is this relation is a function? Tell why or why not. _____

{(5, 3), (2, 8), (–5, –1), (4, 7), (2, 1)}

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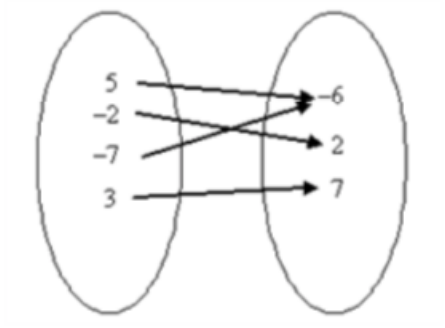
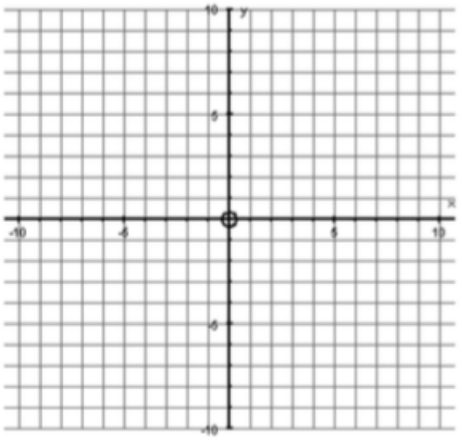
Is this relation is a function? Tell why or why not.

3.



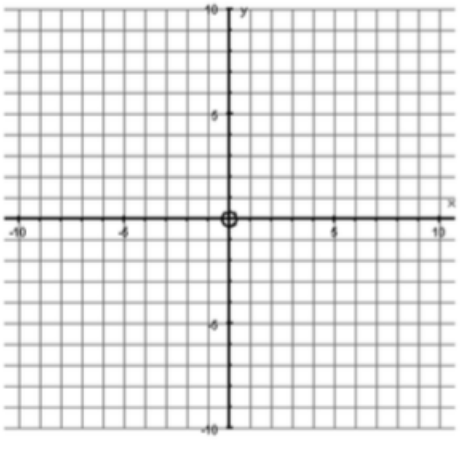
Graph this linear equation.

4. $y = 3x + 2$



Graph this linear equation.

5. $y = -2/5\ x - 1$



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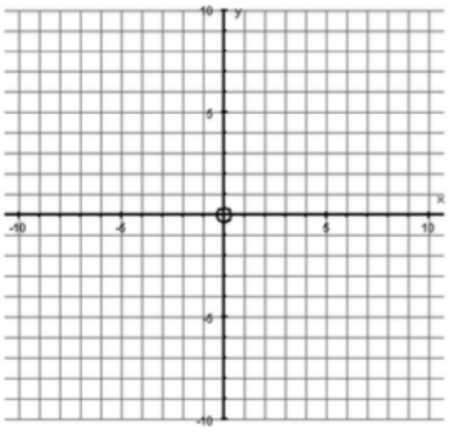
Graph this linear equation.

6. -3x + y = 6



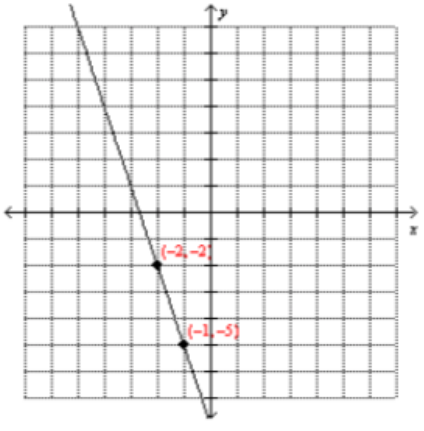
Find the slope of the line that passes through the pair of points.

7. (–5, –2), (3, –2)

8. (2, 7), (8, –6)

Find the slope of the line. The coordinates of the given pairs are (-2, -2) and (-1, -5).

9.



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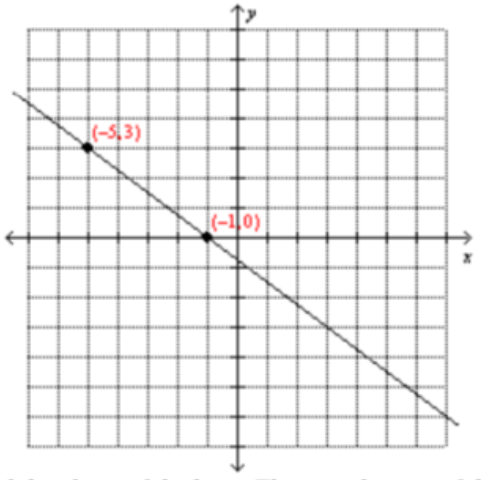
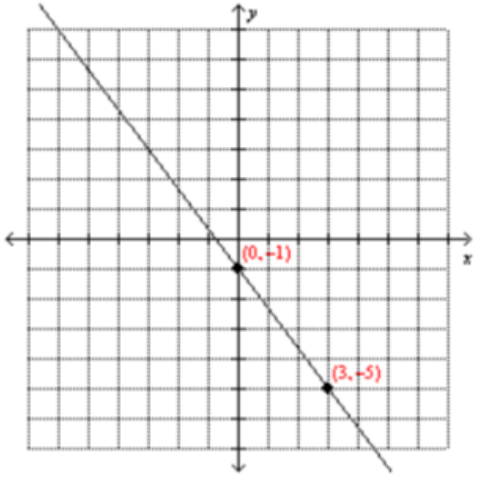
Find the slope of the line. The coordinates of the given pairs are (-5, 3) and (-1, 0).

10.



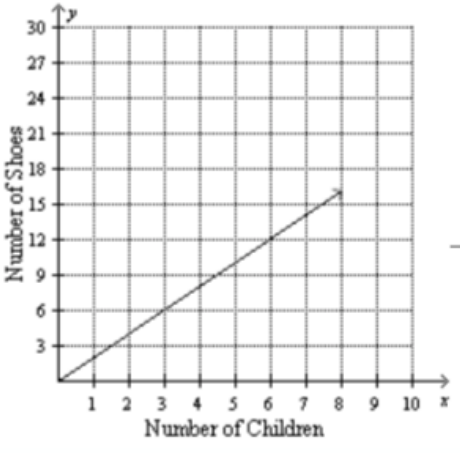
Find the slope of the line. The coordinates of the given pairs are (0, -1) and (3, -5)

11.



Determine if the function is a direct variation. Explain why or why not.

12.



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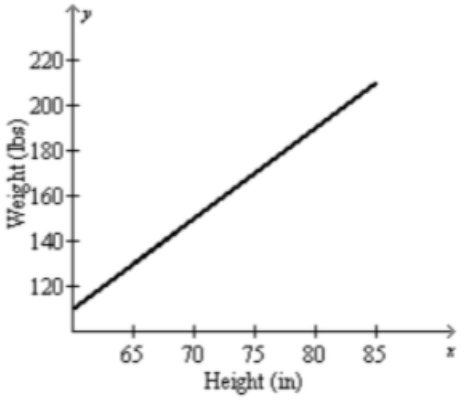
Determine if the function is a direct variation. Explain why or why not.

13.

Average Weight and Height (Men)

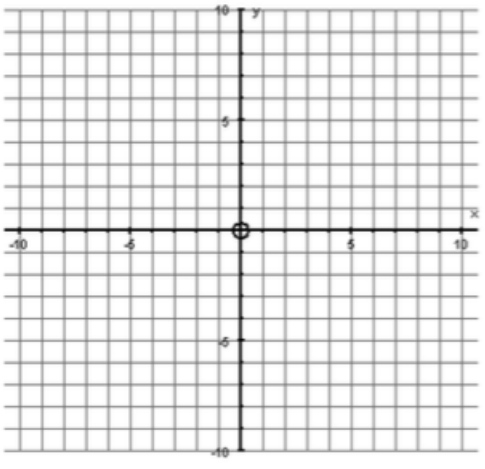


Determine if the function is a direct variation. Explain why or why not.

14. $y = 2x$

Graph this equation using the slope and the y-intercept.

15. $y = \frac{1}{3}x - 3$



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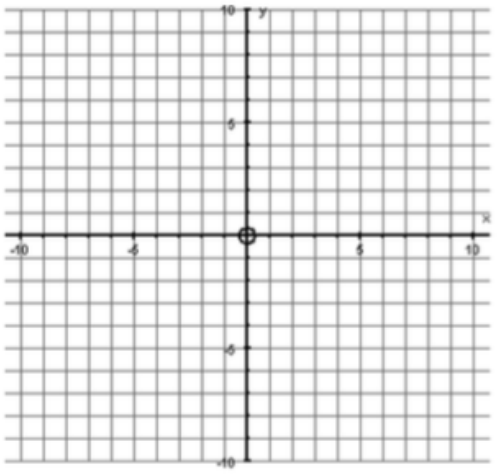
*Graph this equation using the slope and the y-intercept. (*Hint: First solve for y.)*

16. $y + 4x = 2$



Graph this equation using the slope and the y-intercept.

17. $y = -2x$