

7th Grade
April 15, 2021

Today we will:

- Review HW
- Watch video
- Begin classwork



HOMEWORK:

Skills WS

ALEKS time and topics
assignment due Monday
night



HOMWORK

Name _____

Unit _____ Lesson _____ Due Date _____

Go online for Step-by-Step Solutions



Copy and complete each table. Use the results to write four ordered pair solutions of the given function. (Example 1)

13. $y = x - 2$

x	$y = x - 2$	y
-1	$y = (-1) - 2$	-3
0	$y = (0) - 2$	-2
1	$y = (1) - 2$	-1
2	$y = (2) - 2$	0

- (-1 , -3)
- (0 , -2)
- (1 , -1)
- (2 , 0)

15. $y = 5x + 1$

x	$y = 5x + 1$	y
-2	$y = 5(-2) + 1$	-9
-1	$y = 5(-1) + 1$	-4
0	$y = 5(0) + 1$	1
1	$y = 5(1) + 1$	6

- (-2 , -9)
- (-1 , -4)
- (0 , 1)
- (1 , 6)

Find four solutions of each function. Write the solutions as ordered pairs. (Example 1)

17. $y = 8x$

21. $y = 2x + 5$

- 17. (1 , 8)
- (2 , 16)
- (3 , 24)
- (4 , 32)

- 19. (1 , 8)
- (2 , 9)
- (3 , 10)
- (4 , 11)

19. $y = x + 7$

23. $x + y = -3 \rightarrow y = -3 - x$

- 21. (1 , 7)
- (2 , 9)
- (3 , 11)
- (4 , 13)

- 23. (1 , -4)
- (2 , -5)
- (3 , -6)
- (4 , -7)

25. The circumference of a circle C with a radius of r units is approximately given by the linear equation $C \approx 6.3r$. Find two solutions of this function. Explain each solution. (Example 2)



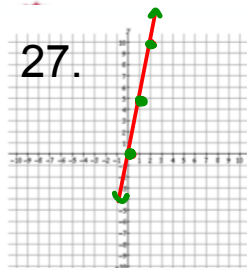
Hint Choose any 2 r's, then find C for each.

- (1 , 6.3) A radius with 1 unit has a circumference of 6.3 units.
- (2 , 12.6) A radius with 2 units has a circumference of 12.6 units.

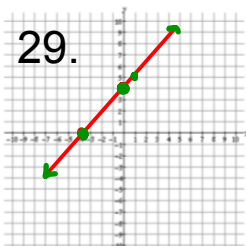
Graph each function. (Example 2)

27. $y = 5x$

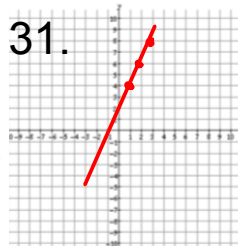
31. $y = 2x + 2$



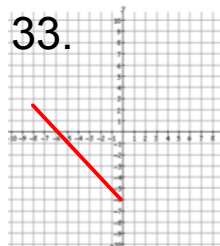
29.



31.



33.



Handwritten work for graphing $y = x + 4$:

$$\begin{array}{l} x - \text{int} \\ y = 0 \\ 0 = x + 4 \\ -4 = x \\ x = -4 \end{array}$$

$$\begin{array}{l} y - \text{int} \\ x = 0 \\ y = 0 + 4 \\ y = 4 \end{array}$$

Video:

<https://www.youtube.com/watch?v=3BmYm5lbzkk>





Name _____

CLASSWORK

Unit ____ Lesson ____ Due Date _____

NAME _____ DATE _____ PERIOD _____

Lesson 2 Skills Practice
Representing Linear Functions

*There's an extra line in the input/output tables. Just leave it blank. Remember, choose any 4 x's and find their y's using the given rule. $if\ x=1, \ 4-4y=24$
 $4-4y=24$

Find four solutions of each equation. Write the solutions as ordered pairs.

1. $y = 8x - 4$

Input	Output

(,)
(,)
(,)
(,)

2. $y = -x + 12$

Input	Output

(,)
(,)
(,)
(,)

3. $4x - 4y = 24$

$x - y = 6$

Input	Output

(,)
(,)
(,)
(,)

4. $x - y = -15$

Input	Output

(,)
(,)
(,)
(,)

5. $y = 7x - 6$

Input	Output

(,)
(,)
(,)
(,)

6. $y = -3x + 8$

Input	Output

(,)
(,)
(,)
(,)

Graph each equation by plotting ordered pairs.

10. $y = 3x - 2$

Input	Output

(,)
(,)
(,)
(,)

11. $x + y = 3$

Input	Output

(,)
(,)
(,)
(,)

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

Input	Output

(,)
(,)
(,)
(,)

