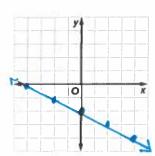
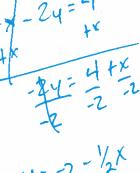
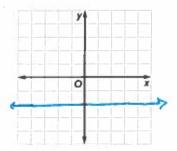
## **Unit 4 Test Review**

1. Graph -x - 2y = 4.





2. Graph y = -2.



3. What is the slope of the line y = 4?

4. Mr. Smith is draining his pool to have it cleaned. At 8:00 A.M., it had 2000 gallons of water and at 11:00 A.M. it had 500 gallons left to drain. What is the rate of change in the amount of water in the pool?

-500 zelles per herr

5. What is the slope between (-4, 3) and (2, 5)?

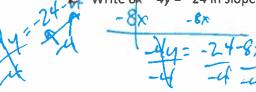
 $\frac{DY}{DX} = \frac{2}{4} = \sqrt{\frac{1}{3}}$ 

- 6. A teacher buys pencils for their classroom. The equation y = -8x + 100 represents the number of pencils, y, the teacher has over x days.
  - a. What does the slope represent?

8 pencils each day

b. What does the y-intercept represent?

Write 8x - 4y = -24 in slope-intercept form.



$$V = (c + 2x)$$

- Describe translations of the graph of g(x) = (2x) + 3 in relation to the parent function.
  - · Horizontal compress · Up 3

## **Unit 4 Test Review**

- 9. The graph of g(x) = -1/2(x) is a Vertical congressanda reflect over x-axis
- 10. The graph of g(x) = (0.75x) is a horizontal Stretch
- 11. Determine whether each sequence is an arithmetic sequence.
  - a. 2, 6, 10, 14, ...
- [ Arithmetic Sequence B Not an Arithmetic Sequence ]
- **b.** 1.25, 2.5, 5, 6.25, ...
- [ A Arithmetic Sequence Not an Arithmetic Sequence ]
- c. 4, 10, 16, 22, ...
- [ Arithmetic Sequence B Not an Arithmetic Sequence ]
- **d.** 18, 12, 6, 0, ...
- [ M Arithmetic Sequence B Not an Arithmetic Sequence ]
- e. 2.5, 5, 7.5, 10, ...
- [ Arithmetic Sequence B Not an Arithmetic Sequence ]
- 12. Determine the next 3 terms in the arithmetic sequence 3, 10, 17, 24, 31, 38, 45
- 13. Write an equation that describes the nth term of the arithmetic sequence -2, -1.5, -1, -0.5,...

(0,-2.5)

a =-2.5

4 = 0.5x -2.5

 $Q_0 = 0.5 n - 2.5$ 

14. Christa has a box of chocolate candies. The number of chocolates in each row forms an arithmetic sequence, as shown in the table.

Row	1	2	3	4	0	1 .
Number of Chocolates	3	6	9	12	0	01 = 3

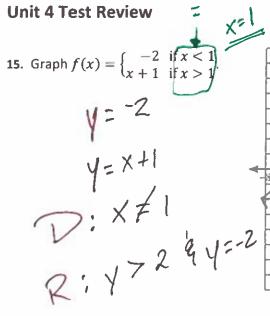
Create an equation to find the number of chocolates in the 9th row.

$$a_n = 3_n$$

a=3(9)=

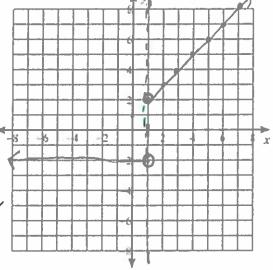
d: 0.5

**Unit 4 Test Review** 

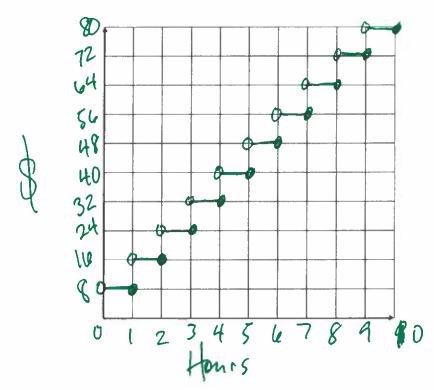








16. Steve is renting a bike. The bike rental shop charges \$8 per hour or any fraction thereof. Make a graph to represent the possible costs of renting a bike.



- 17. State the transformations of the function g(x) = -0.45|x + 6| + 10
  - · Vestical congress
  - · Reflect over xxxis
  - o Left 6
  - · up 10

		9