8 Review.notebook October 08, 2014

Review Unit 2

Agenda

Warm-Up
HW Check
Structured
Review Time

Reminders

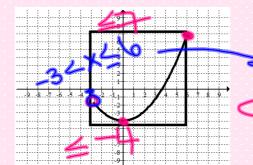
Test & Notebook Check tomorrow!

HW 1.6 & 2.1 due Friday last call

Read-It day Friday

Warm-up Wednesday

1. Which best describes the range of the graph below?



A. $\{y | -4 < y < 7\}$

 $\{x \mid -3 < x \le 6\}$

C. $\{y | -4 \le y \le 7\}$

$$(x - 4 \le x \le 7)$$

2. What is the **parent function** of v=2x+3?

$$A. \quad y = x$$

B.
$$y = x^2$$

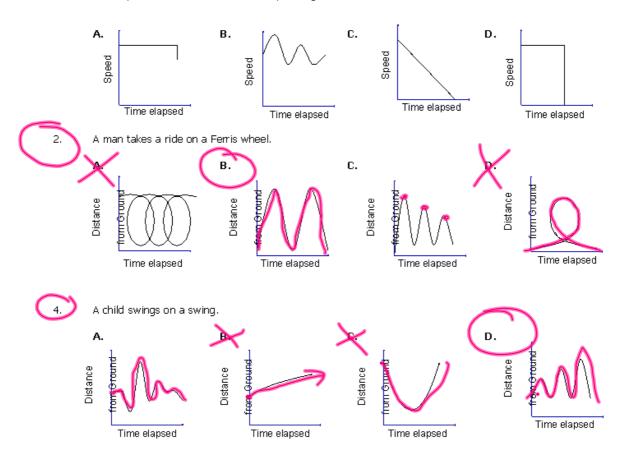
$$C = 2x$$

D.
$$y = x \pm 3$$

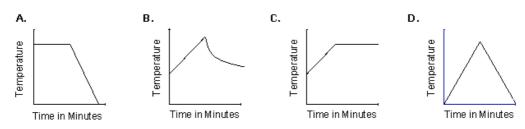


Indicate which graph matches the statement.

A train pulls into a station and lets off passengers.



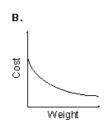
5. Water is boiled and then allowed to sit at room temperature.

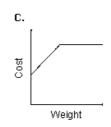


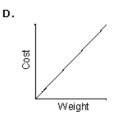
Algebra I - Unit 2: Topic 2 - Situation Graphs

6. Cost of a bag of potatoes depends upon its weight.

A.

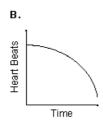


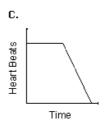


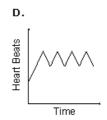


7. The heart rate of a person depends on how long he has been exercising.

Heart Beats
Time

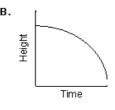


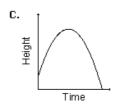


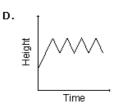


8. A baseball is hit. Its height h is a function of time t

A.
High Time







Draw a graph that matches each situation. Give a label to each axis.

9. Sara walks from her home to the store. Halfway to the store, she realizes that she forgot to bring money, so she turns around, returns home, gets her money, and then walks all the way to the store. Graph time on the horizontal axis and distance from home on the vertical axis.





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Reminders

Test & Notebook
Check tomorrow!
HW 1.6 & 2.1 due
Friday last call
Read-It day Friday

Review Unit 2

First 10

You will work through as much of the review with no notes, no help from neighbors or teachers.

Highlight the problems you need help with.

00:00 21

Use this time wisely!

Next 10

You may use your notes, but still no help. Try those highlighted questions!

Next Next 10

You may use your neighbor! Explain how to do problems to each other.

Remaining

Foundations of Functions Review

Name We will work through the review together. Algebra 1: Unit 2

Remember: solutions are posted on twitter!

1. Use the sequence of shapes to answer the 4. Which expression can be used to find the nth term

questions.



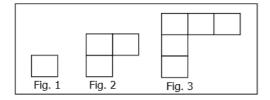






a. Draw the 9th figure.

2. Consider the pattern below:



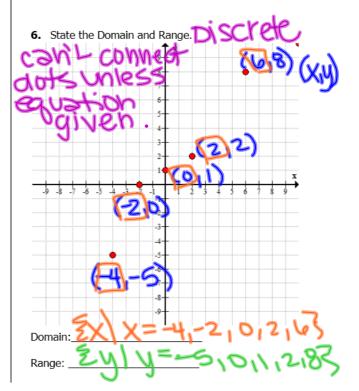
What is the pattern rule?

3. If *n* represents a number's position in the sequence, write the first four numbers in the sequence described by the expression, n(n-8)+3

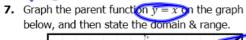
in the following sequence, where n represents a number's position in the sequence?

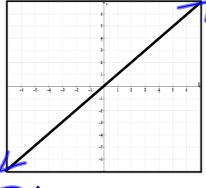
Position in Sequence	1	3	6	9	n
Term	5	9	15	21	

- A. n + 4
- B. 4n + 1
- C. 2n + 3
- D. 2n
- 5. Given the pattern rule 4 + 5n what is the term number if it takes 154 blocks to build the pattern?



7. Graph the parent function v = x on the graph



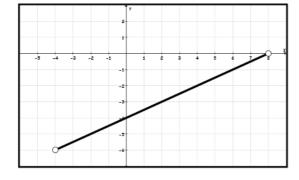


P:

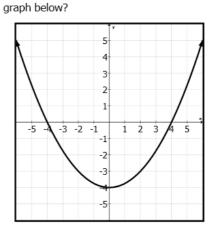
8. Evaluate the following expression for
$$x = -3$$

$$X^2 + 3x + 12$$

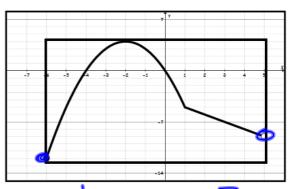
9. What is the range of the function shown on the graph?



10. Which type of parent function is represented by the

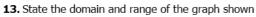


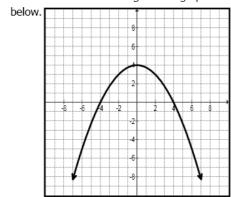
- Exponential
- Absolute Value
- C Linear
- D Quadratic
- **11.** What is the domain of the function shown in the graph?



D: 2X/-6xx<53

12. Maria wants to make a long-distance telephone call to her friend. She does not want to spend more than \$6.50 on the telephone call. If there is a \$0.20 connection fee and a charge of \$0.24 per minute, write and graph an inequality that best represents this situation.

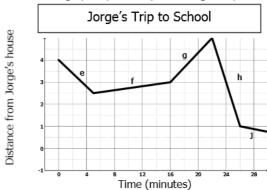




D: _____

R: _____

14 – 15. OH NO. Jorge left his math homework in his locker! The graph below represents Jorge's car trip from his house to school and then back to his house. Each section of the graph represents part of Jorge's trip.



14. Which part of Jorge's trip was he going the slowes but not standing still?



15. During which part of the trip was Jorge traveling the fastest?

SKLP



16. During which part of the trip was Jorge at the school?

State the domain and range of the following set of ordered pairs.

 $\{(-3, 6), (0, 4), (3, 5), (-2, -6), (1, 10)\}$

Domain:

Range:

Continuous or discrete?

18. Solve the following equation for y

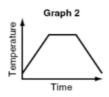
$$x = \frac{y+3}{z}$$

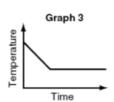
19. The formula for density is $D = \frac{m}{V}$. Solve the the equation for V.

20. Write the equation that can be used to find the measure of two supplementary angles, where the measure of one angle is 5 more than triple the other.

Choose the graph that best represents the situation.

Graph 1
Time





- 21. Rebekah turns on the oven and sets it to 300°F. She bakes a tray of cookies and then turns the oven off.
 - A. Graph 1
 - B. Graph 2
 - C. Graph 3
- 22. Leon puts ice cubes in his soup to cool it down before eating it.
 - A. Graph 1
 - B. Graph 2
 - C. Graph 3
- 23. Baylee has the flu and her temperature rises slowly until it reaches 101°F.
 - A. Graph 1
 - B. Graph 2
 - C. Graph 3

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