

Name: _____

Date: _____ Pd: _____

Unit 3 Quiz

1. Jordan is making a graph to illustrate the number of \$5 stuffed animals that can be purchased. What is the domain of this scenario?

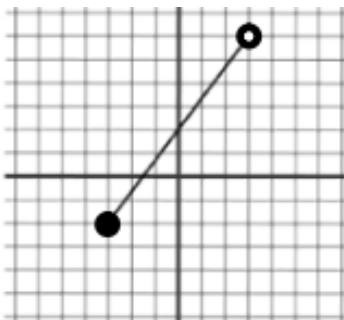
- A.** all real numbers
B. all real positive numbers
C. all integers
D. all integers greater than or equal to zero

2. Auburn is driving at an average rate of 65 mph from Dallas to San Antonio, a distance of 275 miles. The distance Auburn travels in miles, d , is a function of time in hours, t , he has been driving.

What function can be used to model this situation? What is an appropriate domain and range for the problem situation?

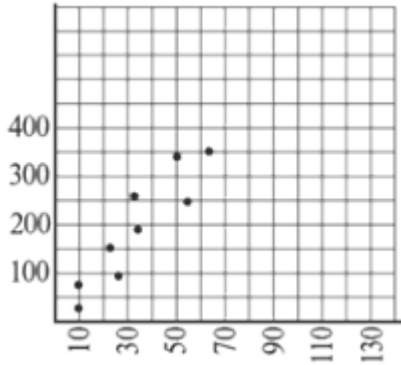
- A.** $t = d + 65$
D: $[0, 4.2]$ R: $(0, 275]$
- B.** $d = 65t$
D: $[0, 4.2]$ R: $[0, 275]$
- C.** $d = t + 65$
D: $(0, 4.2]$ R: $(0, 275]$
- D.** $t = 65d$
D: $[0, 4.2]$ R: $[0, 275]$

3. What is the range of the function shown in the graph?



- A.** $-2 < y < 6$
B. $-2 < y \leq 6$
C. $-2 \leq y < 6$
D. $-2 \leq y \leq 6$

4. Given the following scatter plot, predict x when y is 500.

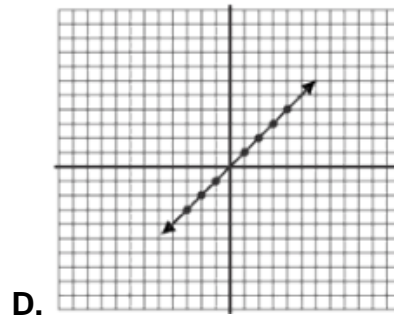
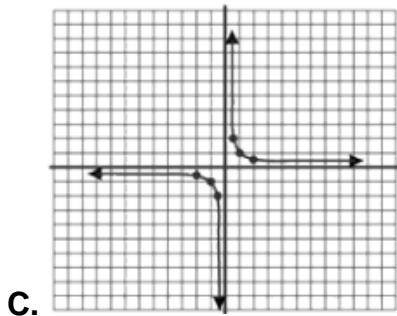
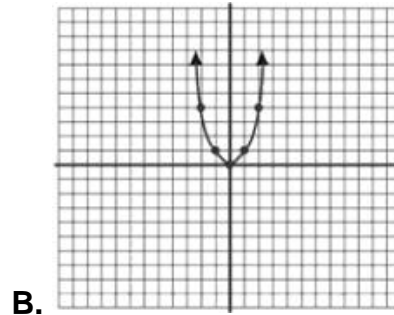
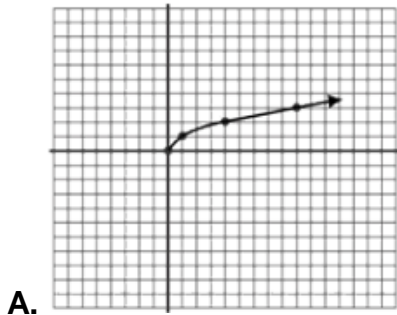


- A. 60
- B. 80
- C. 100
- D. 120

5. Which could be the equation that represents the function $y = 3x - 4$ translated up 5 units and left 2 units?

- A. $y = 3x - 5 - 2 - 4$
- B. $y = 3(x + 2) + 1$
- C. $y = 3(x - 2) - 9$
- D. $y = 3x - 11$

6. Which graph represents the linear parent function?



7. Find all numbers such that 10 plus 5 times the number is no more than 230.

A. $x < 44$

B. $x < 48$

C. $x \leq 44$

D. $x \leq 48$

8. Sarah wants to rent a car. For the particular car she wants, No Dent Rents charges \$165 per week plus 35 cents per mile driven. Rental Spindle charges a flat fee of \$235 per week. For what number of miles driven will renting from No Dent Rents cost Sarah less than renting from Rental Spindle?

A. 100 miles

B. 150 miles

C. 200 miles

D. 250 miles

9. Solve for x : $3(2x-1) - 2(-x+3) = \frac{2}{3}(5x-20)$

A. $x = \frac{13}{14}$

B. $x = \frac{14}{13}$

C. $x = -\frac{13}{14}$

D. $x = -\frac{14}{13}$

10. During the process of solving an equation with one variable, Jimi ended up with the result $0 > 3$. What would be the best response to Jimi?

A. You are wrong, redo it!

B. The statement is True meaning the answer is all real numbers.

C. The statement is False meaning there is no solution.

D. None of these are appropriate.

11. During the process of solving an equation with one variable, Jacky ended up with the result $8 > 3$. What would be the best response to Jacky?

A. You are wrong, redo it!

B. The statement is true meaning the answer is all real numbers.

C. The statement is False meaning there is no solution.

D. None of these are appropriate.