Substitution

Solution

7) If a function is defined by f(x) = 10 - 3x and the domain is $\{1, 2, 4, 6\}$, then what is the range? (1, 7) (4, -2) (4, -2)

(2,4) (6,-8)

2-8, 3, 4,75

8) Create a table from the given graph. You may choose any 4 points.

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X	f(x)
-10	0
- 2	-4
4	-7
10	-10

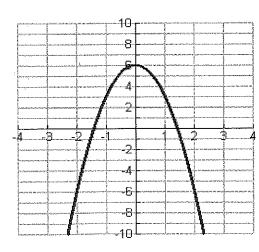
9) Using the table from question #8, Identify the following:

Function) Not a Function

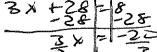
R: \(\frac{\xi}{-10,-7,-4,0}\)

Grand on your table

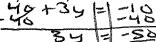
10) The graph below represents a function:



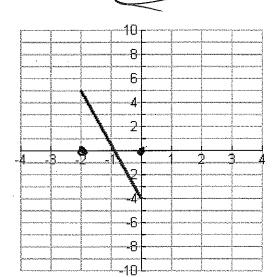
What is x when f(x)=6when f(x) and is ϕ what is χ



40+34=-10.



13) What is the domain of the line segment on the graph below?



-2 < x < 0

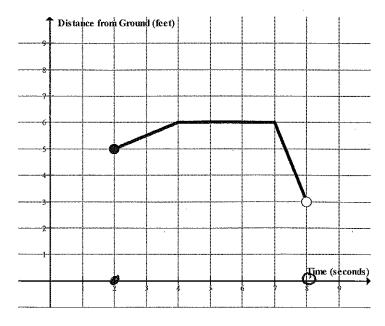
14) StuCo is selling t-shirts to raise money for the Spring Fling Dance. After the cost of making the t-shirts is deducted, the remainder of the money collected will be deposited in an account to purchase decorations and food for the dance. Identify the independent and dependent quantities in this situation.

Independent:

Cost depends on t-shirts

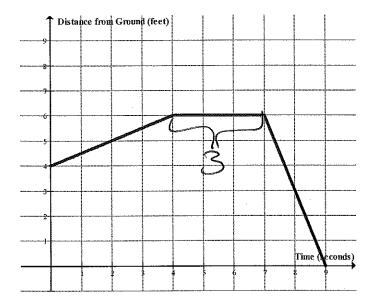
Dependent:

15) Find the Domain and Range of the graph below:



Domain: <u>2 4 x 4 8</u>

- 16) Lisa was holding a balloon and let go. A slight breeze carried the balloon up until it hung on a tree limb. The branch punctured the balloon and it fell to the ground. The path of the balloon is represented by the graph below. Use the graph to answer the following questions.
- 1) What is the independent quantity? 17me
- 2) What is the dependent quantity?
- 3) What is the domain? $0 \le x \le 9$
- 4) What is the range? $0 \le 9 \le 6$
- 5) When was the balloon moving the fastest? From 7-9 seconds 6) How long was the balloon caught on the tree branch? 3 Seconds
- 6 feet 7) How high was the branch off the ground?



17) The formula below is used to find the V, the volume of a rectangular prism, where I is the length, w is the width, and h is the height.

Solve the equation for the term of w.