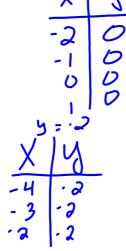
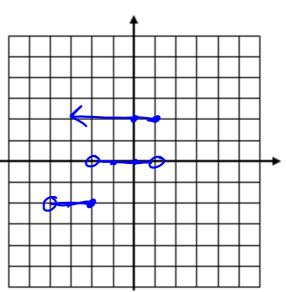


Graph
$$g(x) = \begin{cases} 2, & x \le 1 \\ 0, & -2 < x < 1 \\ -2, & -4 < x \le -2 \end{cases}$$

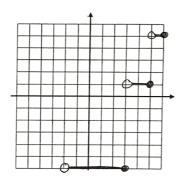




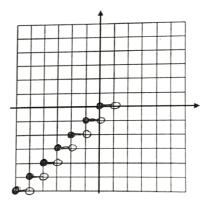
Jan 30-9:42 AM

Homework Answers

3.



5.



(a)

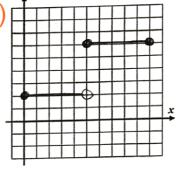
$$f(0) = 2$$
 $f(2) = 2$ $f(4) = 2$

$$f(4) = 2$$

$$f(5) = 6$$
 $f(7) = 6$ $f(10) = 6$

$$f(7) = 6$$

$$f(10) = 6$$

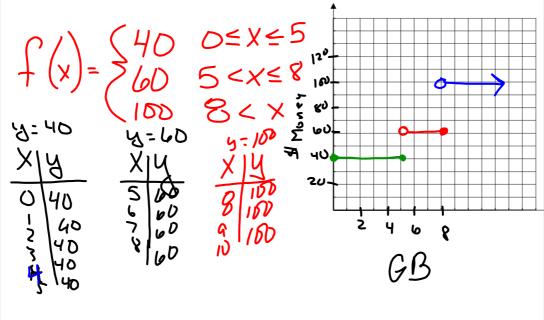


Dec 12-7:49 AM

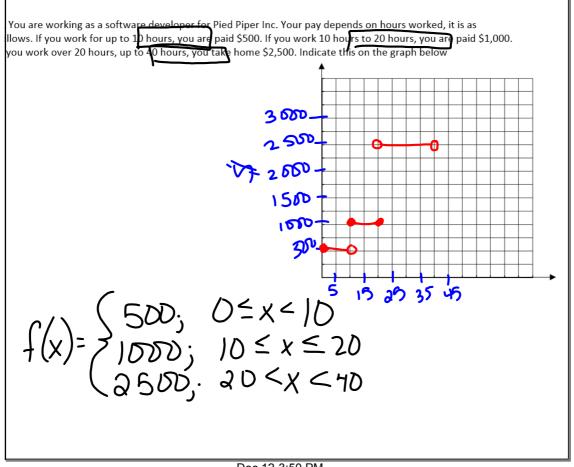


Word Problems

1. Your family data plan allows for you to use at most 5 GB for 40 dollars per month. If you use more than 5GB, up to 8 GB you must pay 60 dollars for the month. If you use more than 8 GB, you must pay 100 for the month. Graph this on the axes provided. (Hint, scale the y-axis appropriately).

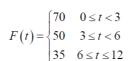


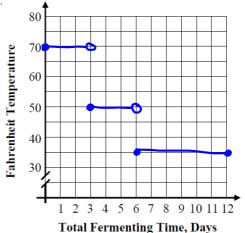
Dec 12-3:38 PM



3. When kimchi is made, it is initially fermented for the first 3 days at a temperature of 70 degrees Fahrenheit and then immediately moved to a temperature of 50 degrees Fahrenheit for another 3 days after which it is put in a 35 degree refrigerator for 6 days.

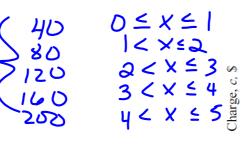
The Fahrenheit temperature, F, of the kimchi can be modeled over time, t, in days with the equation below. Graph the kimchi's temperature on the grid provided.

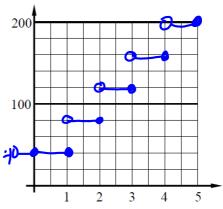




Jan 7-11:14 AM

- 4. An electrician works at a job site at a rate of \$40 per hour or any portion of an hour. In other words, he will charge you \$40 as soon as he comes up to the first hour, and then \$40 for the second hour, and so on.
 - (a) Graph the amount the electrician charges, c, in dollars as a function of the number of hours he works.





Hours worked

(b) How much does he charge for working 3.5 hours? Circle the point on the graph the shows this answer.

5.16 step functions final.notebook	December 15, 2017