WARM UP

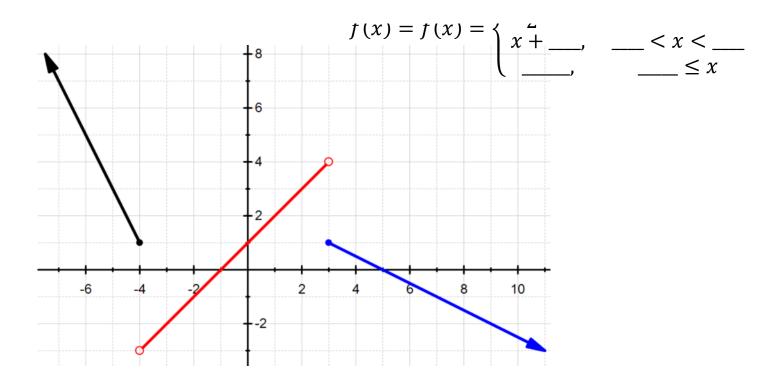
Evaluate the following Piecewise Function for the following values of x.

$$t(x) = \begin{cases} x+1, & x \le -4 \\ \frac{1}{2}x+4, & -4 < x \le 2 \\ -3x+6, & 2 < x \end{cases}$$
 $t(-12) = t(-1) = t(6) = t(6) = t(6)$

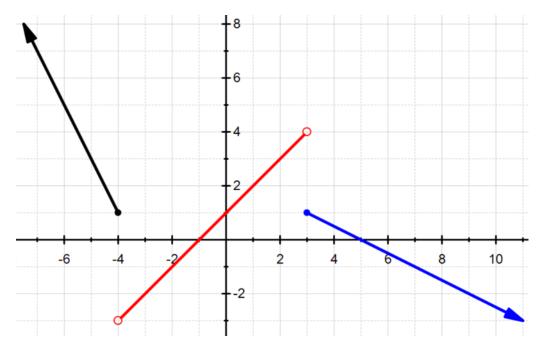
https://tinyurl.com/vp9vnqt



Finish the piecewise function.
$$f(x) = f(x) = \begin{cases} -\frac{1}{2}x & x \leq \underline{} \\ x + \underline{} & < x < \underline{} \\ & < x \end{cases}$$



Over what interval is the graph increasing? Decreasing?

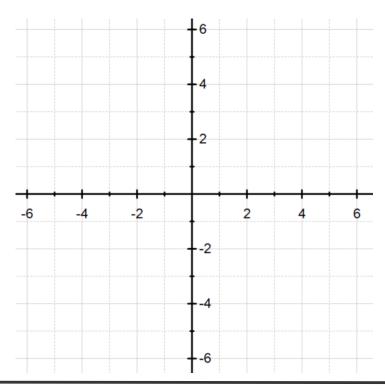


Your company is going to buy T-Shirts to hand out at Salmon Days as a promotion. You have a t-shirt maker you are going to use but aren't sure how many t-shirts to get. You know that by handing out at least 50 t-shirts you'll get more customers but you can't spend

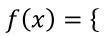
more than \$250 because of budget. If the t-shirts are sold to you using the piecewise function below, how many should you get and for what cost?

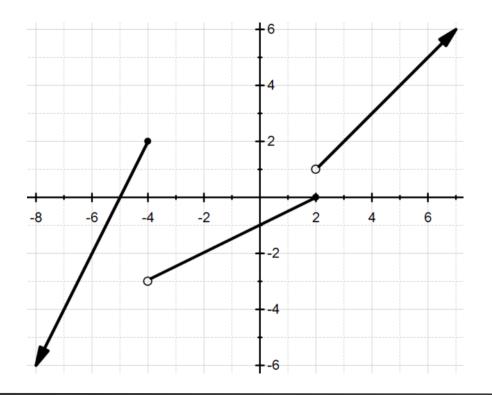
$$f(x) = \begin{cases} 15x + 25, & 0 \le x \le 10\\ 10x + 15, & 11 \le x \le 50\\ 5x + 5, & 51 \le x \end{cases}$$

Draw an example of a piecewise function that has a maximum value of 3.



What is the piecewise function for the given graph?





https://tinyurl.com/s7bsxx4

