

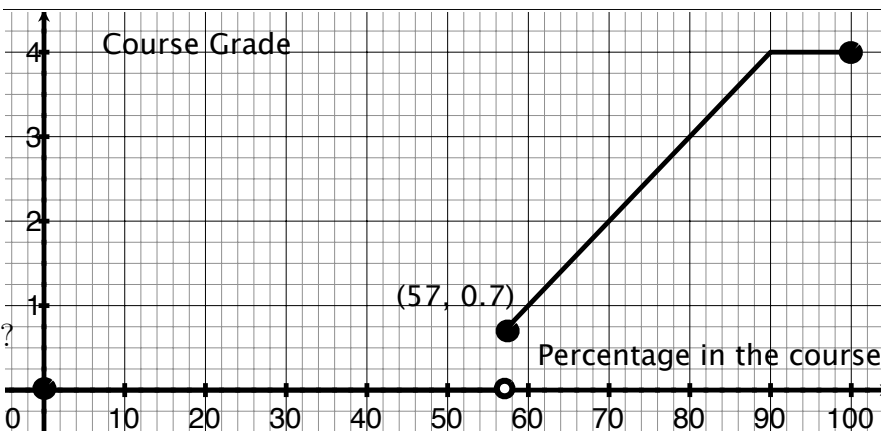
Quiz 1

Show *all* your work. Reasonable supporting work must be shown for any partial credit. There are *two* sides to this quiz.

1. Let f be the graph below and to the right.

- (a) [1] (§1.3 #60)
Find $f(90)$

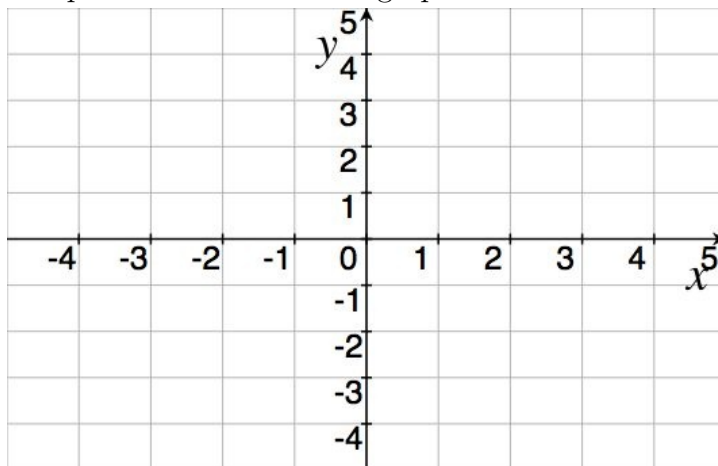
- (b) [1] (WebHW2 #19)
What is the domain?



- (c) [1] (§1.1 #50)
Find an x -intercept.

2. [2] (GraphWks #4) Plot (at least) two points that are on the graph of

$$g(x) = \begin{cases} -2x & \text{if } x < 1 \\ -2 & \text{if } 1 \leq x \end{cases}$$



3. [2] (§A.3 #58) Perform the indicated operations to simplify $\frac{3 - \frac{x}{2}}{x + 1} - \frac{1}{2(x + 1)}$
4. [3] (FractionWks#2 & Quiz1 from last TMath 115 class) You have 12 oz of mocha that is 25% espresso sitting in a 16 oz cup. Write a rational expression in x whose values give the percentage (in decimal form) of espresso in the cup when x oz of espresso are added to it.