

Name: _____

Section: _____

MATH 120A

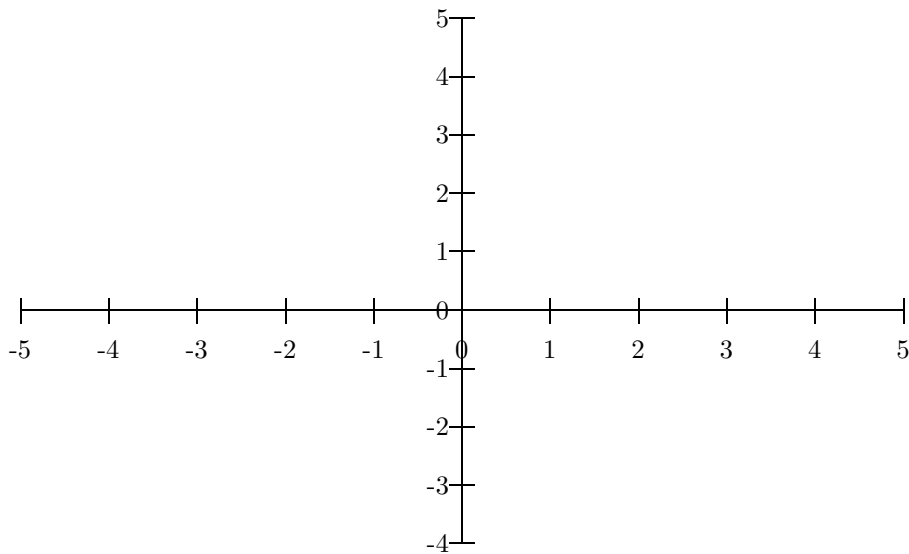
QUIZ 3

January 24, 2002

You may use a scientific calculator to complete this quiz. No notes please.

1. (5 points) On the axes below, graph the function

$$f(x) = \begin{cases} -2 & \text{if } -4 \leq x \leq -2 \\ x & \text{if } -2 \leq x \leq 0 \\ -(x-2)^2 + 4 & \text{if } 0 \leq x \leq 4 \end{cases}$$



2. (5 points) Let $f(x) = -0.2x^2 - 3x + c$.

(a) What is the x -coordinate of the vertex?

(b) Find c so that $f(x)$ has a maximum value of -225.