Math 120E Autumn 2002 **Name:** _____

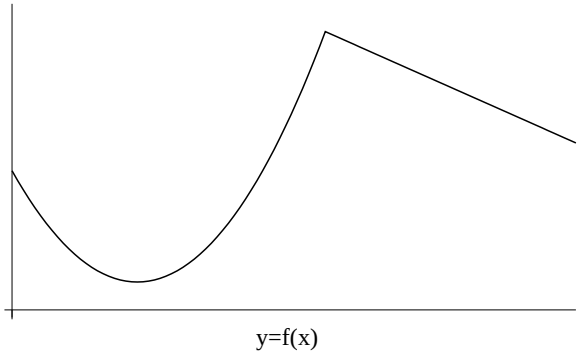
Quiz #3

Quiz Section: _____

SHOW YOUR WORK

The function shown to the right has domain $0 \leq x \leq 9$. It is given by the multi-part formula

$$f(x) = \begin{cases} x^2 - 4x + 5 & \text{if } 0 \leq x \leq 5; \\ 15 - x & \text{if } 5 \leq x \leq 9. \end{cases}$$



1. (3 points) What is the maximum value of $f(x)$?

2. (3 points) What is the minimum value of $f(x)$?

3. (4 points) What values of x make $f(x)$ larger than 8?