

Name: _____

Section: _____

MATH 120A
QUIZ 3
January 23, 2003

You may use a calculator to complete this quiz. No notes please. Show all work.

$$\text{Let } f(x) = \begin{cases} x + 3, & \text{if } -5 \leq x \leq 0 \\ 3, & \text{if } 0 \leq x \leq 4 \\ -\frac{5}{3}x + 9, & \text{if } 4 \leq x \leq 6. \end{cases}$$

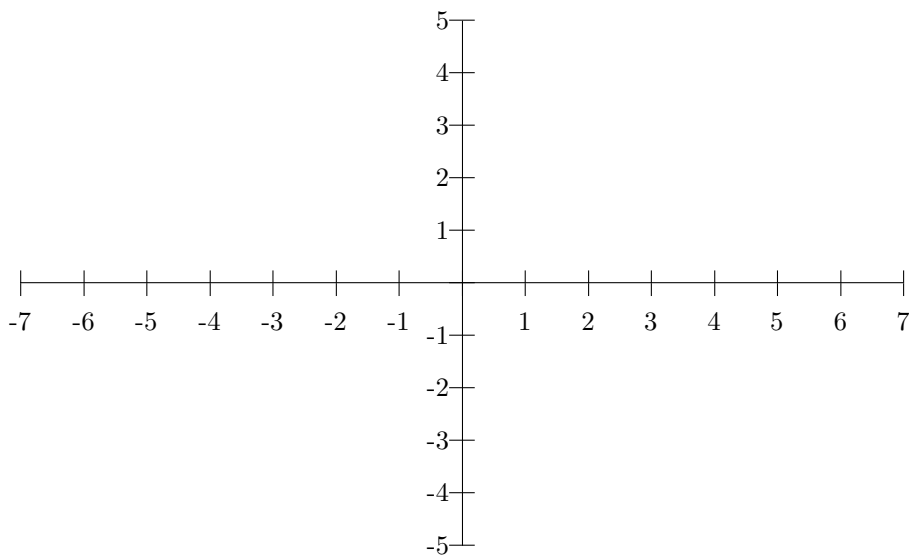
1. (3 points) Compute:

(i) $f(-4)$

(ii) $f(2)$

(iii) $f(5)$

2. (3 points) Sketch the graph of $f(x)$.



3. (2 points) Give the domain and range of $f(x)$.

4. (2 points) Find all values of x for which $f(x) \geq 0$.