Math 120 D	$\mathbf{Quiz} \ 3 \ (25 \ \mathrm{minutes})$
Name	Student number

Tuesday, October 21, 1997

Quiz section:

Please show your work for full credit.

- 1. The graph of the formula f(x) versus x is shown to the right.
- (a) Find f(1) and f(3).
- (b) Sketch the graph of $\frac{1}{2}f(-2x)$ versus x.
- **2.** Let $g(x) = 3x^2 + 1$. Find g(g(x)) and $g(\frac{1}{x})$.
- 3. A windshield wiper has an arm of length 10 inches, with the blade running the length of the arm. If the tip of the arm travels a distance of 12 inches (i.e., it traces out a 12 inch long arc), what angle (in radian) does the wiper rotate through? And what is the area swept by the wiper?