Quiz 2

Show all your work. No credit is given without reasonable supporting work. There are two sides to this quiz.

1. Let
$$f(x) = \frac{3}{\sqrt{x-4}}$$
.

(a) [2] (WebHW3 #15) Find the domain of f.

(b) [1] (§1.3 #32) Find f(x+8).

2.	[2] (WebHW4	#4)	
	Graph $l(x) =$	$\begin{cases} \frac{1}{2}x - 1\\ 0 \end{cases}$	$\begin{array}{ll} \text{if } -4 \leq x \leq 2 \\ \text{if } 2 < x \leq 3 \end{array}$

				$v^{5\uparrow}$					
				⁹ 4					
				3					
				2					
				1			2		
-4	-3	-2	-1	0	1	2	3	4	5
				-1					A
				-2					
				-3					
				-4					



3. Let g be the piecewise defined graph shown below.

- (a) [1] ($\S1.3 \# 56$) Estimate g(1)
- (b) [2] (TransformationWks #5) Find the range of g.
- (c) [2] (TransformationWks #5) Let m(x) = g(x+1) + 2. Graph m(x) on the set of axes.