## 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) $[1](\S 1.3 \# 32)$ Find $f(x+8)$.
2. [2] (WebHW4 \#4)

Graph $l(x)= \begin{cases}\frac{1}{2} x-1 & \text { if }-4 \leq x \leq 2 \\ 0 & \text { if } 2<x \leq 3\end{cases}$
$\left.\begin{array}{|l|l|l|l|r|l|l|l|l|l|}\hline & & & & y_{4}^{5} & & & & & \\ \hline\end{array}\right)$
3. Let $g$ be the piecewise defined graph shown below.

(a) $[1](\S 1.3 \# 56)$ 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.

