## Math 120 C, E <br> Show all work for full credit.

 Quiz 3October 28, 2004

1. (5 points) Write the multipart rule for the function

$$
g(x)=\left|x^{2}-4\right| .
$$

2. (5 points) Write the multipart rule for the function

$$
f(t)=u\left(\frac{t}{2}\right)+u\left(\frac{t}{3}\right)
$$

where $u(t)$ is the basic step function,

$$
u(t)= \begin{cases}0 & \text { if } t<0 \\ 1 & \text { if } 0 \leq t \leq 1 \\ 0 & \text { if } t>0\end{cases}
$$

