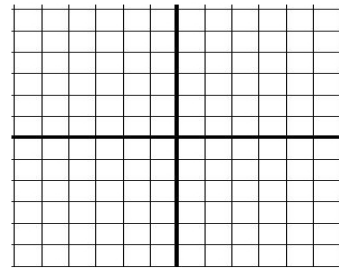
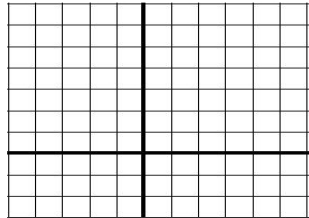
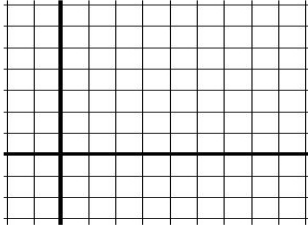


III. Determine where (and why) the functions are not differentiable. Then, sketch the graphs.

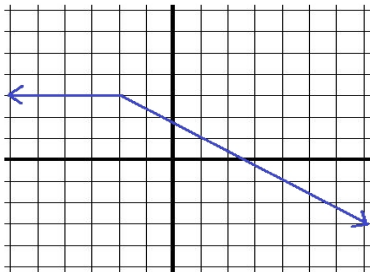
$$f(x) = |x - 3| + 4$$

$$g(x) = \begin{cases} x^2 & \text{if } x < 1 \\ 4 & \text{if } x = 1 \\ x^2 & \text{if } x > 1 \end{cases}$$

$$h(x) = \frac{3}{x+2}$$

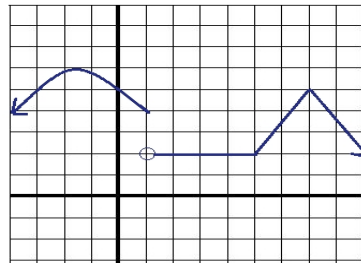


IV: Determine the intervals where the functions are a) continuous b) differentiable



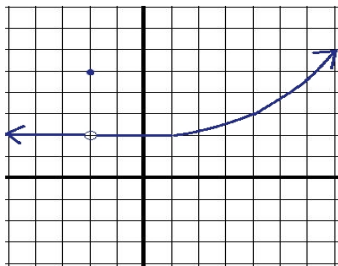
Continuous:

Differentiable:



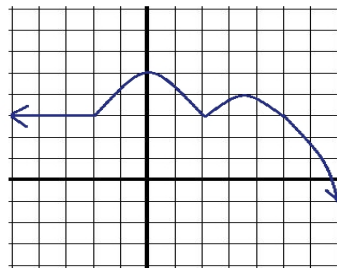
Continuous:

Differentiable:



Continuous:

Differentiable:



Continuous:

Differentiable: