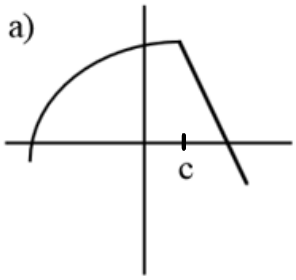
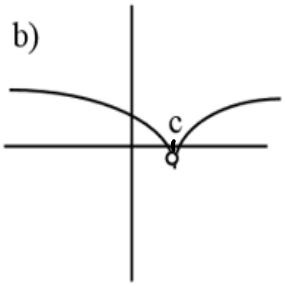
Connecting Differentiability and Continuity

For the following, state whether the function, $g(x)$, is continuous, differentiable, both, or neither at $x = c$.

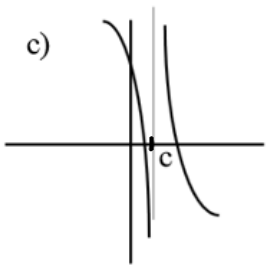
a)



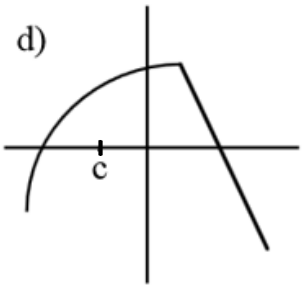
b)



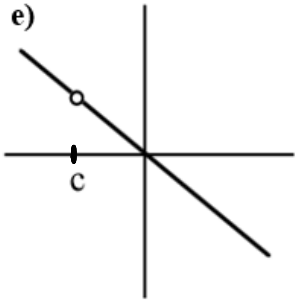
c)



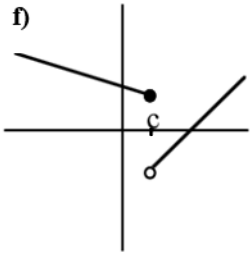
d)



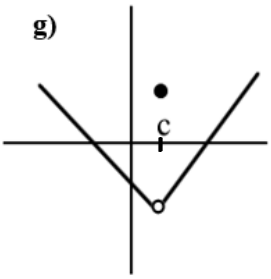
e)



f)



g)



h)