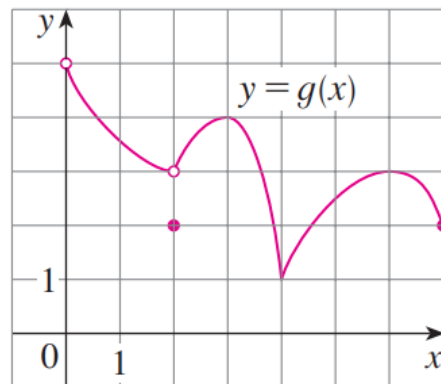


Exercise 6

Use the graph to state the absolute and local maximum and minimum values of the function.



Solution

Absolute Maximum : None

Absolute Minimum : $(4, 1)$

Local Minima : $(2, 2)$, $(4, 1)$

Local Maxima : $(3, 4)$, $(6, 3)$

$(0, 5)$ and $(7, 2)$ are not local minima or maxima because they're at the endpoints. In addition, the function is not defined at $x = 0$.