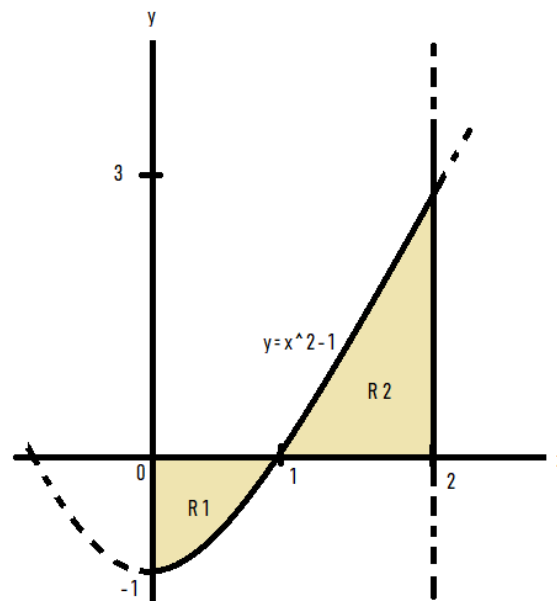


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For R1, upper function is $f(x) = 0$ and lower function is $g(x) = x^2 - 1$ and $x \in [0, 1]$

For R2, upper function is $f(x) = x^2 - 1$ and lower function is $g(x) = 0$ and $x \in [1, 2]$.