

## PROBLEM 12.5.18.7 (2014)

Find the value of  $\alpha$  such that the function  $f(x)$  is continuous at  $x = 0$ .

$f(x) = \begin{cases} \alpha x^2 + 2x + 1 & \text{if } x < 0 \\ \alpha x^2 + 1 & \text{if } x \geq 0 \end{cases}$

