

**Partial Differentiation**  
*Limits*

**Question**

Evaluate the given limit. If the limit does not exist, explain why.

$$\lim_{(x,y) \rightarrow (2,-1)} xy + x^2$$

**Answer**

$$\lim_{(x,y) \rightarrow (2,-1)} xy + x^2 = 2(-1)^2 = 2$$