

SPRING 2026 MATH 102, SECTION 2

QUIZ 3

Name: _____

Time limit: 20 minutes

Determine whether the limit

$$\lim_{(x,y) \rightarrow (0,0)} \frac{x^3y^2 - x^2y^3}{x^4 + y^6}$$

exists or not. Justify your answer.