

If $f_1 = f_2 = f_3$, then

AFO $\rightarrow y = mx^2$

$$\lim_{(x,y) \rightarrow (0,0)} f(x,y) = \lim_{x \rightarrow 0} f(x, mx^2) = f_y$$

If $f_1 = f_2 = f_3 \neq f_4$, then limit does not exist

||y we take infinite paths $y = mx^n, n \in \mathbb{R}$. $\frac{2}{3} \quad \frac{3}{4}$
 If in all these paths the limit is same $y = ax^{5/6}$
 then we say that the limit exists

\rightarrow check whether the limit of the following functions exist or not.

$$1) \lim_{(x,y) \rightarrow (0,0)} \frac{x^2 y}{x^4 + y^2}$$

$$f_1 = \lim_{x \rightarrow 0} \left[\lim_{y \rightarrow 0} \frac{x^2 y}{x^4 + y^2} \right] = \lim_{x \rightarrow 0} [0] = 0$$

$$f_2 = \lim_{y \rightarrow 0} \left[\lim_{x \rightarrow 0} \frac{x^2 y}{x^4 + y^2} \right] = \lim_{y \rightarrow 0} [0] = 0$$

Along $y = mx$ $f_3 = \lim_{(x,y) \rightarrow (0,0)} \frac{x^2 y}{x^4 + y^2} = \lim_{x \rightarrow 0} \frac{x^2(mx)}{x^4 + m^2 x^2} = \frac{m x^3}{x^2(1+m^2)} = 0$

Along $y = mx^2$ $f_4 = \lim_{(x,y) \rightarrow (0,0)} \frac{x^2 y}{x^4 + y^2} = \lim_{x \rightarrow 0} \frac{x^2 m x^2}{x^4 + m^2 x^4} = \lim_{x \rightarrow 0} \frac{m x^4}{x^4(1+m^2)} = \frac{m}{1+m^2}$

$m=1, y=x^2 \rightarrow \frac{1}{1+1} = \frac{1}{2}$
 $m=2, y=2x^2 \rightarrow \frac{1}{1+4} = \frac{1}{5}$

Along $y = x^2 \rightarrow \frac{1}{2}$
 $y = 2x^2 \rightarrow \frac{1}{5}$

for different values of m we get different limits
 Hence the function does not have limit at $(0,0)$.

2) $\lim_{(x,y) \rightarrow (0,0)} \frac{y^2 - x^2}{x^2 + y^2} \rightarrow$ limit does not exist

$$\lim_{x \rightarrow 0} \frac{x^3 - (mx^3)^3}{x^2 + (mx^3)^2} = \lim_{x \rightarrow 0} \frac{x^3 - m^3 x^9}{x^2 + m^2 x^6} = \lim_{x \rightarrow 0} \frac{(x - m^3 x^6)}{1 + m^2 x^4} = 0$$

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

Multivariable Calculus Notes

Joel Segel



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 characterized all of the author s books His explanations make ideas come alive and his problems challenge to reveal the
 beauty of calculus Midwest **The American Mathematical Monthly** ,1981 Includes articles as well as notes and other
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