









1













This is because we can let (x, y) approach
(a, b) from an infinite number of directions
in any manner whatsoever as long as (x, y) stays
within the domain of f.





















Math 114 - Rimmer 14.2 - Multivariable Limits Example 2 • If x = 0, then $f(0, y) = 0/y^2 = 0$. - So, $f(x, y) \rightarrow 0$ as $(x, y) \rightarrow (0, 0)$ along the y-axis. Math 114-Rinner 142-Multivariable Limits

LIMIT OF A FUNCTION



Example 2

• Although we have obtained identical limits along the axes, that does not show that the given limit is 0.

Math 114 – Rimmer 14.2 – Multivariable Limits

























LIMIT OF A FUNCTION Equations 2 • The Squeeze Theorem also holds. With 114 - Rimmer IL22- Midlyardabk Linits



 $\lim_{x \to a} f(x) = f(a)$

Math 114 - Rimmer 14.2 - Multivariable Limits





















Math 114 – Rimmer 14.2 – Multivariable Limits

















