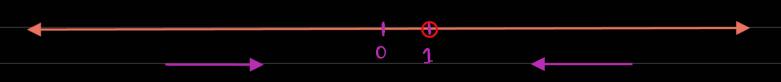


$$\int_{0}^{\infty} (x) = \frac{x^3 - 1}{x - 1}$$

Domain = All real numbers except 1

OR 
$$R - \xi \cdot \xi$$



1. Um 
$$\frac{\chi^3 - 1}{\chi - 1}$$

x	0.75	0.9	0.99	0 . 999	1	1.001	1.01	1.1	1.25
(K)	2.31 <sup>3</sup> 3	રુ. જા	2.97	2.997	?	z.003	3.03	3.31	3.813

$$\lim_{n\to 1} f(n) \qquad \lim_{n\to 1^-} f(n) = 3$$

$$\lim_{n \to 1} f(n) \qquad \qquad \lim_{n \to 1^+} f(n) = 3$$

## DEFINITIONS

\* If a function (la) would want to become a number 1 as a approaches c both from left and right, we say that lim