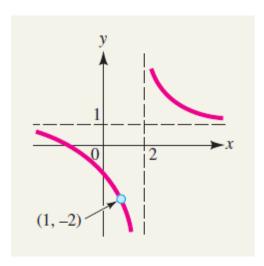
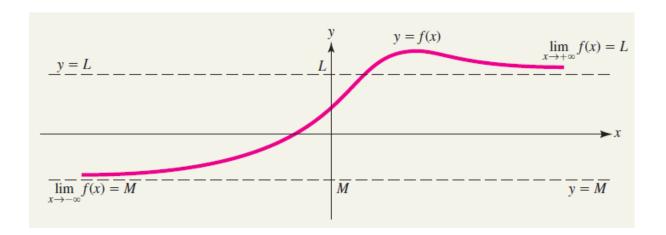


$$\lim_{x \to 1} \frac{x^2 - 1}{x^2 - 3x + 2}$$

$$\frac{x^2 - 1}{x^2 - 3x + 2} = \frac{(x - 1)(x + 1)}{(x - 1)(x - 2)} = \frac{x + 1}{x - 2} \qquad x \neq 1$$

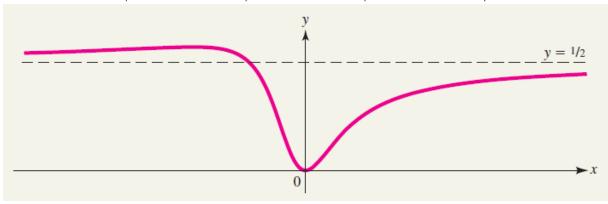




$$\lim_{x \to +\infty} \frac{x^2}{1 + x + 2x^2}$$

$$f(x) = \frac{x^2}{1 + x + 2x^2}$$

Х	100	1,000	10,000	100,000
f(x)	0.49749	0.49975	0.49997	0.49999



$$f(x) = \sin\left(\frac{1}{x}\right)$$

