

EJERCICIO MIBE2415:

$$a) \lim_{x \rightarrow \infty} \frac{5-x^2+3x}{2x^2-9} = \left(\frac{\infty}{\infty} \right) =$$

← JENSEN

$$= \lim_{x \rightarrow \infty} \frac{\frac{5-x^2+3x}{x^2}}{\frac{2x^2-9}{x^2}} = \lim_{x \rightarrow \infty} \frac{\frac{5}{x^2} - \frac{x^2}{x^2} + \frac{3x}{x^2}}{\frac{2x^2}{x^2} - \frac{9}{x^2}} =$$

$$= \lim_{x \rightarrow \infty} \frac{\frac{5}{x^2} - 1 + \frac{3}{x}}{2 - \frac{9}{x^2}} = \frac{\frac{5}{\infty} - 1 + \frac{3}{\infty}}{2 - \frac{9}{\infty}} =$$

$$= \frac{0 - 1 + 0}{2 - 0} = -\frac{1}{2}$$