LIMITES LATERAIS e INFINITOS

$$k)\ \lim_{x\to+\infty}\frac{3x^7-x^{10}}{5x^{15}-x^{10}}$$

$(+\infty)-(+\infty)$; $(+\infty)-(+\infty)$

$+\infty-\infty\to ?$

$$=\lim_{x\to+\infty}\frac{x^{10}\left(\frac{3}{x^3}-1\right)}{x^{15}\left(5-\frac{1}{x^5}\right)}=$$

$\frac{n^{\circ}}{\infty}\to 0$

$$=\lim_{x\to+\infty}\frac{\frac{3}{x^3}-1}{x^5\cdot\left(5-\frac{1}{x^5}\right)}=0$$

$\frac{3}{x^3}\to 0$; $-1\to -1$; $0-1=-1$

$x^5\to+\infty$; $5-\frac{1}{x^5}\to 5-0$

$+\infty\cdot 5=+\infty$