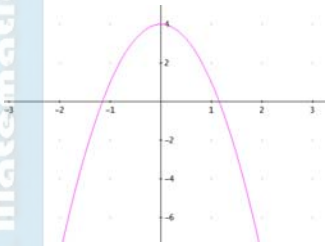
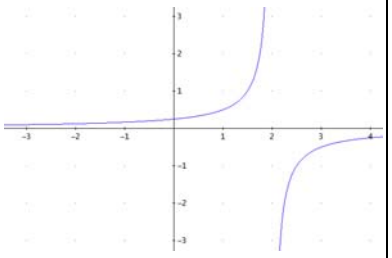
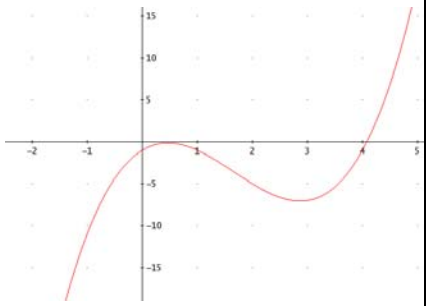
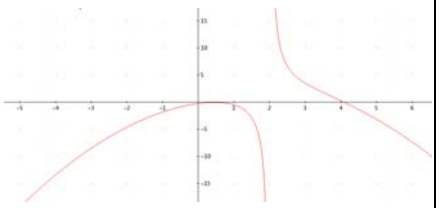
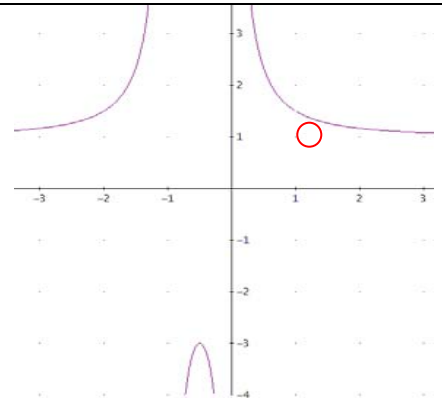
EM- sesión 4Límites básicos de funciones racionales

Grupo: **Secretario**

$g(x)=4-3x^2$	$h(x)=\dfrac{1}{4-2x}$	$i(x)=x^3-5x^2+4x-1$	$j(x)=\dfrac{x^3-5x^2+4x-1}{4-2x}$	$i(x)=\dfrac{x^3-1}{x^3-x}$
				
$\lim_{x\to-\infty} g(x)=$ $\lim_{x\to+\infty} g(x)=$ $\lim_{x\to 0} g(x)=$	$\lim_{x\to-\infty} h(x)=$ $\lim_{x\to+\infty} h(x)=$ $\lim_{x\to 0} h(x)=$ $\lim_{x\to 2^-} h(x)=$ $\lim_{x\to 2+} h(x)=$	$\lim_{x\to-\infty} i(x)=$ $\lim_{x\to+\infty} i(x)=$ $\lim_{x\to 0} i(x)=$	$\lim_{x\to-\infty} j(x)=$ $\lim_{x\to+\infty} j(x)=$ $\lim_{x\to 0} j(x)=$ $\lim_{x\to 2^-} j(x)=$ $\lim_{x\to 2+} j(x)=$	$\lim_{x\to-\infty} i(x)=$ $\lim_{x\to+\infty} i(x)=$ $\lim_{x\to -1} i(x)=$ $\lim_{x\to 0} i(x)=$ $\lim_{x\to 1} i(x)=$

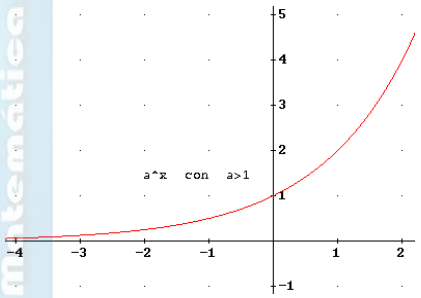
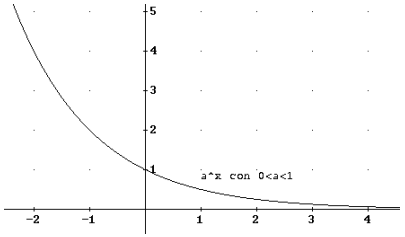
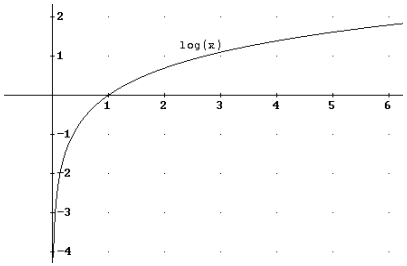
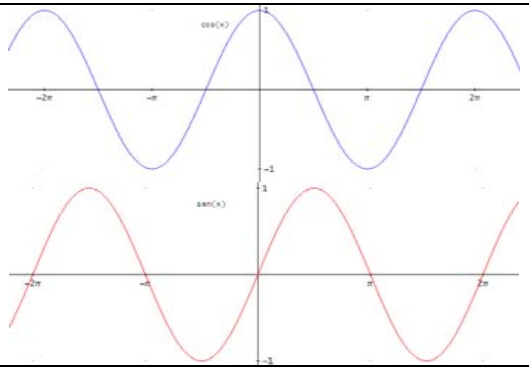
Otros límites de funciones racionales e irracionales:

$\lim_{x\to+\infty}\dfrac{3x^3+1}{2x^2+x}=$; $\lim_{x\to-\infty}\dfrac{2x^2+x}{3x^3+1}=$; $\lim_{x\to 0}\dfrac{2x^2+x}{3x^3+1}=$; $\lim_{x\to 0}\dfrac{3x^3+1}{2x^2+x}=$

$\lim_{x\to+\infty}\dfrac{\sqrt{x^4-x^3}}{\sqrt{3x^3+1}}=$; $\lim_{x\to 0}\dfrac{\sqrt{x^4-x^3}}{\sqrt{3x^3+1}}=$; $\lim_{x\to+\infty}\dfrac{\sqrt[3]{x^4-x^3}}{\sqrt{3x^3+1}}=$; $\lim_{x\to 1+}\dfrac{\sqrt{3x^3+1}}{\sqrt[3]{x^4-x^3}}=$

$\lim_{x\to+\infty}\dfrac{\sqrt{x^4+x^2}}{x^2+x}=$; $\lim_{x\to+\infty}\dfrac{\sqrt{5x^4+x^2}}{2x^2+x}=$; $\lim_{x\to 0+}\dfrac{\sqrt{x^4+x^2}}{x^2+x}=$

Límites de funciones elementales: exponencial, logaritmo, trigonométricas.

2^x o a^x $(a>1)$	2^{-x} o $(\frac{1}{2})^x$ o a^x $(0<a<1)$	$\log_a(x)$ $(a>1)$; $\ln(x)=\log_e(x)$	$\cos(x)$ / $sen(x)$
			

$\lim_{x\to-\infty} 2^x =$; $\lim_{x\to0} 2^x =$; $\lim_{x\to-1} 2^x =$; $\lim_{x\to+\infty} 2^x =$

$\lim_{x\to+\infty} \left(\frac{1}{2}\right)^x =$; $\lim_{x\to0} \left(\frac{1}{2}\right)^x =$; $\lim_{x\to-\infty} \frac{3}{2^x} =$

$\lim_{x\to+\infty} e^{-x} =$; $\lim_{x\to+\infty} \frac{e^x}{2^x} =$; $\lim_{x\to-\infty} \frac{\left(\sqrt{2}\right)^x}{2^x} =$

$\lim_{x\to+\infty} \log_2 x =$

$\lim_{x\to1} \log_2 x =$

$\lim_{x\to0+} \ln x =$

$\lim_{x\to+\infty} \ln\left(\frac{1}{x}\right) =$

$\lim_{x\to+\infty} \ln\left(\frac{x+1}{x-1}\right) =$

$\lim_{x\to+\infty} \ln(2x^2 - x) =$

$\lim_{x\to+\infty} sen(x) =$

$\lim_{x\to-\infty} \cos(x) =$

$\lim_{x\to0} sen(x) =$

$\lim_{x\to\pi} \cos(x) =$