e) $\lim_{x\to-\infty} \frac{x^2-3}{x^3+9} =$ $y=0$

f) $\lim_{x\to 0} \tan x =$ 0

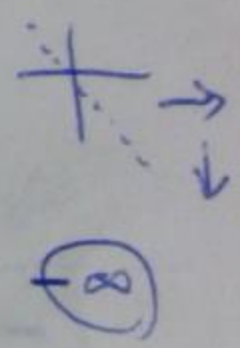
g) $\lim_{x\to 3} \frac{3x+9}{x^2-9} =$ $\lim_{x\to 3} \frac{3(x+3)}{(x+3)(x-3)}$

$\frac{\text{real \#}}{0} = \frac{3}{0} \neq$ ~~∞~~ $\neq 3.001$ ∞ $\neq$ DNE $-\infty$

So try $f(3.001)$ and $f(2.999)$

h) $\lim_{x\to\infty} \frac{-10x^4+20x^3}{15x^3} =$

SA with - slope



$-\infty$

i) $\lim_{x\to 4} \frac{x^3-4x^2+6x-24}{x^2+3x-28} =$

$\lim_{x\to 4} \frac{(x^2+6)(x-4)}{(x+7)(x-4)} = \frac{22}{11} = 2$

j) $\lim_{x\to 1^+} \frac{2x^2-x-3}{2x^2-5x+3} = \lim_{x\to 1+} \frac{(2x-3)(x+1)}{(2x-3)(x-1)}$

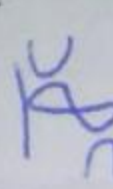
since $\frac{\text{real \#}}{0}$ even after simplify

try $f(1.001) = \frac{2.001}{1/1000} = 2001 \to \infty$

k) $\lim_{x\to-\infty} 4^{-x}+2 = 4^{\infty}+2 = \infty+2$

$= \infty$

l) $\lim_{x\to 2\pi} \csc x =$



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