

DNE

ME so no.

m) $\lim_{x \rightarrow -2} \frac{-x^3}{2x-4} =$ REMEMBER PEMDAS!
 $\frac{-(-8)}{-8} = \frac{8}{-8} = -1$

n) $\lim_{x \rightarrow -2} \frac{3x^3 + 10x^2 + 12x + 10}{2x+4} = \frac{\text{real \#}}{0}$
 and we cannot cancel

$= \frac{3}{-6} = -\frac{1}{2}$

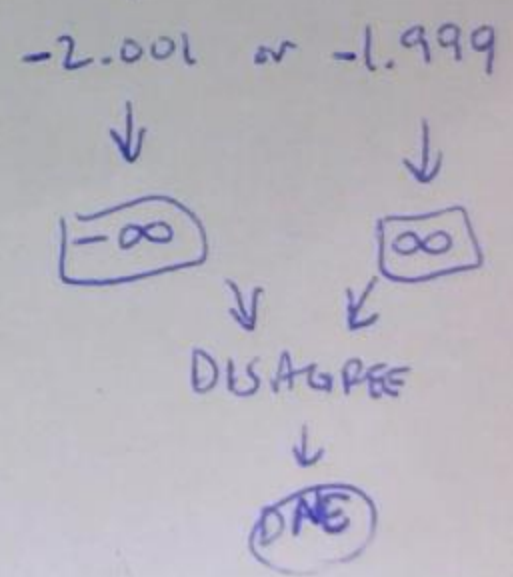
o) $\lim_{x \rightarrow 4^-} \frac{2x+18}{x^2+5x-36} = \frac{\text{real \#}}{0}$
 $(x+9)(x-4)$
 So try $f(3.999) = \frac{2}{-\frac{1}{1000}}$

p) $\lim_{x \rightarrow -\infty} \sin x = \text{DNE}$

so try $f(-2.001) = -\infty$
 and $f(-1.999) = \infty$
 DISAGREE SO DNE
 WHEN WE PLUG IN -2 TO THE NUM.

$2(-1000) = -2000$
 \downarrow
 $-\infty$

YOU GET 2 SO WHEN WE PLUG IN WE CAN PLUG INTO 2
 $\frac{2}{2(x+2)} = \frac{1}{x+2}$
 \uparrow
 -2.001 or -1.999



$= \frac{2}{5}$