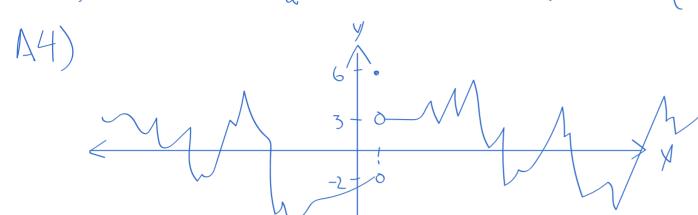
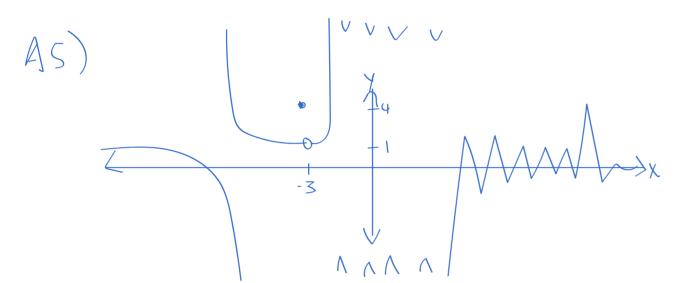
A3 a)
$$f(-3) = 5$$
; $\lim_{x \to a^{-}} = \lim_{x \to a^{+}} = \lim_{x \to a} = 2$

b)
$$f(1)=4$$
 ; $\lim_{x\to a^{-}}=4$ $\lim_{x\to a^{+}}=-3$ $\lim_{x\to a}=DNE$ (left and right hand limits have different valves)

c)
$$f(1) = DNE$$
; $\lim_{x \to a} = \lim_{x \to a} = \lim_{x \to a} = -1$
it's a hole D

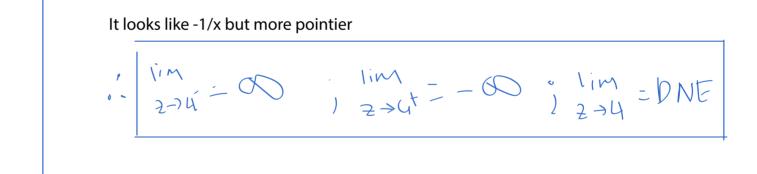
d)
$$f(z)=0$$
; $\lim_{x\to a}=0$ $\lim_{x\to a}=\lim_{x\to a}=DNE$ (doesn't approach a value)

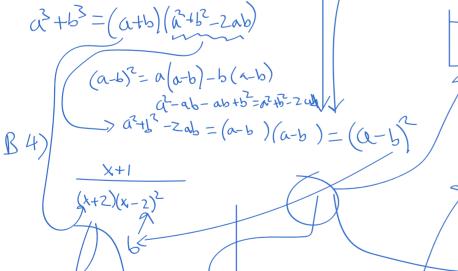


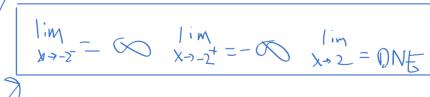


$$32$$
 $\frac{17}{(4-2)^3} = \frac{17}{(4-2)(4^2+2^2-2^442)} = \frac{17}{I \text{ give up}}$

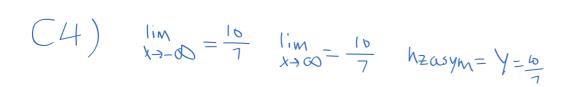
$$17x \frac{1}{(-2+4)^3} = 17 \frac{-1}{(z-4)^3} = -\frac{17}{z^3} = -$$







why no asymtote here?



(8)
$$\lim_{x \to -\infty} = \infty$$
 $\lim_{x \to \infty} = \infty$ heasym = y = 7x4?

