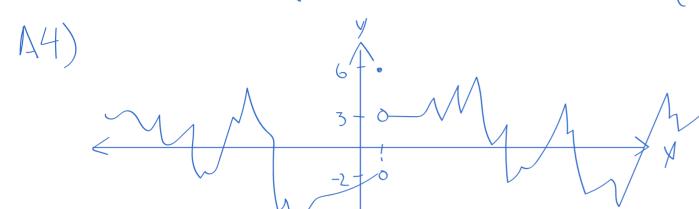
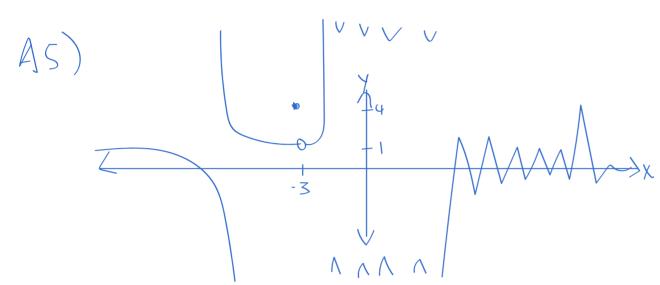
- A3 a) S(-3) = 5; $\lim_{x \to a^{-}} = \lim_{x \to a^{+}} = \lim_{x \to a} = 2$
 - b) f(1)=4) $\lim_{x\to a^{-}}=4$ $\lim_{x\to a^{+}}=-3$ $\lim_{x\to a}=DNF$ (left and right hand limits have different values)
 - c) f(1) = DNE; $\lim_{x \to a} = \lim_{x \to a} = \lim_{x \to a} = -1$
 - d) f(z)=0; $\lim_{x\to a}=0$ $\lim_{x\to a}=0$ NE (doesn't approach a value)





$$BZ = \frac{17}{(4-z)^3} = \frac{17}{(4-z)(4^2+z^2-2^44z)} = \frac{17}{I \text{ give up}}$$

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

