I. IS 
$$f(x) = \begin{cases} 2x+1 & x \ge 3 \\ x^2+2 & x \le 3 \end{cases}$$

3. IS 
$$f(x) = \begin{cases} 2xH & x \neq 0 \\ (x+1)^2 & x \geq 0 \end{cases}$$
DIFFERENTIABLE AT  $x = 0$ ?

2. IS 
$$f(x) = \begin{cases} x+1 & x \le 0 \\ 1-x^2 & x > 0 \end{cases}$$

$$= D \text{ DIFFERENTIAGLE AT } x = 0?$$