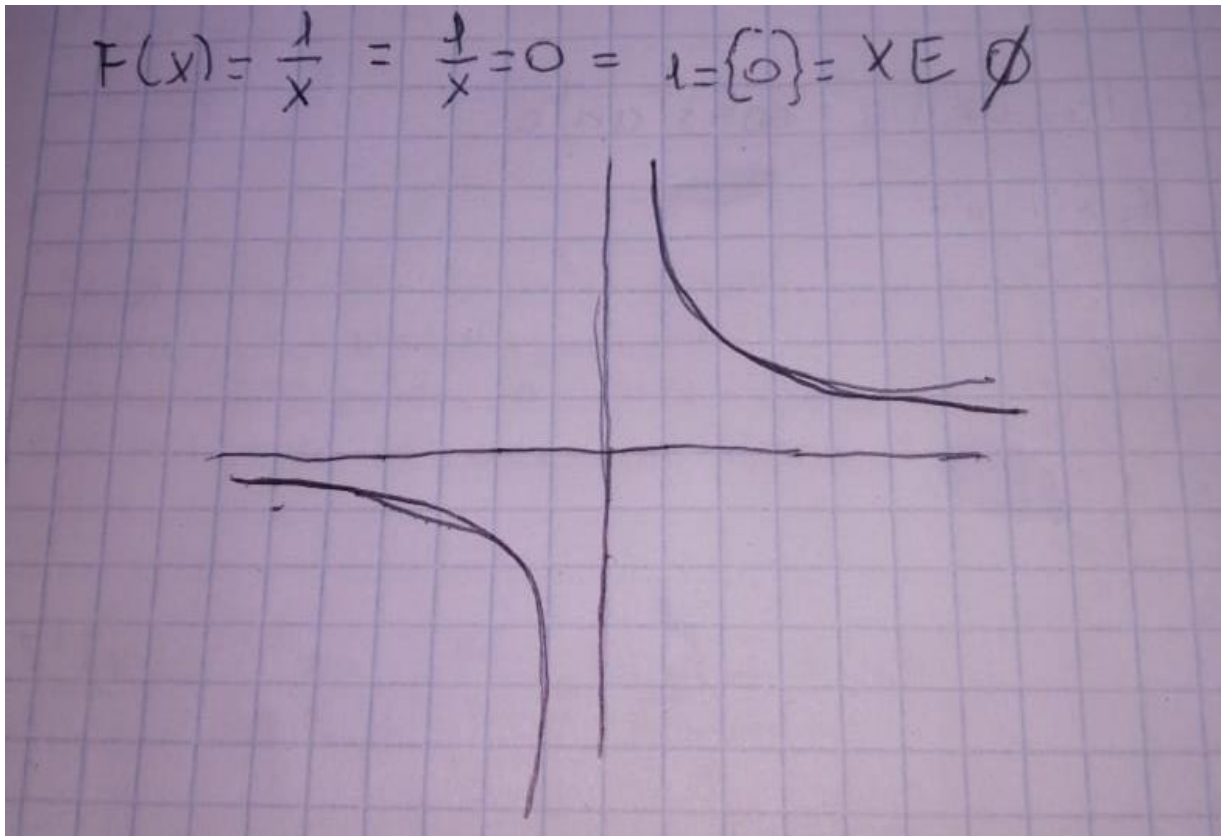


DEBER 3:

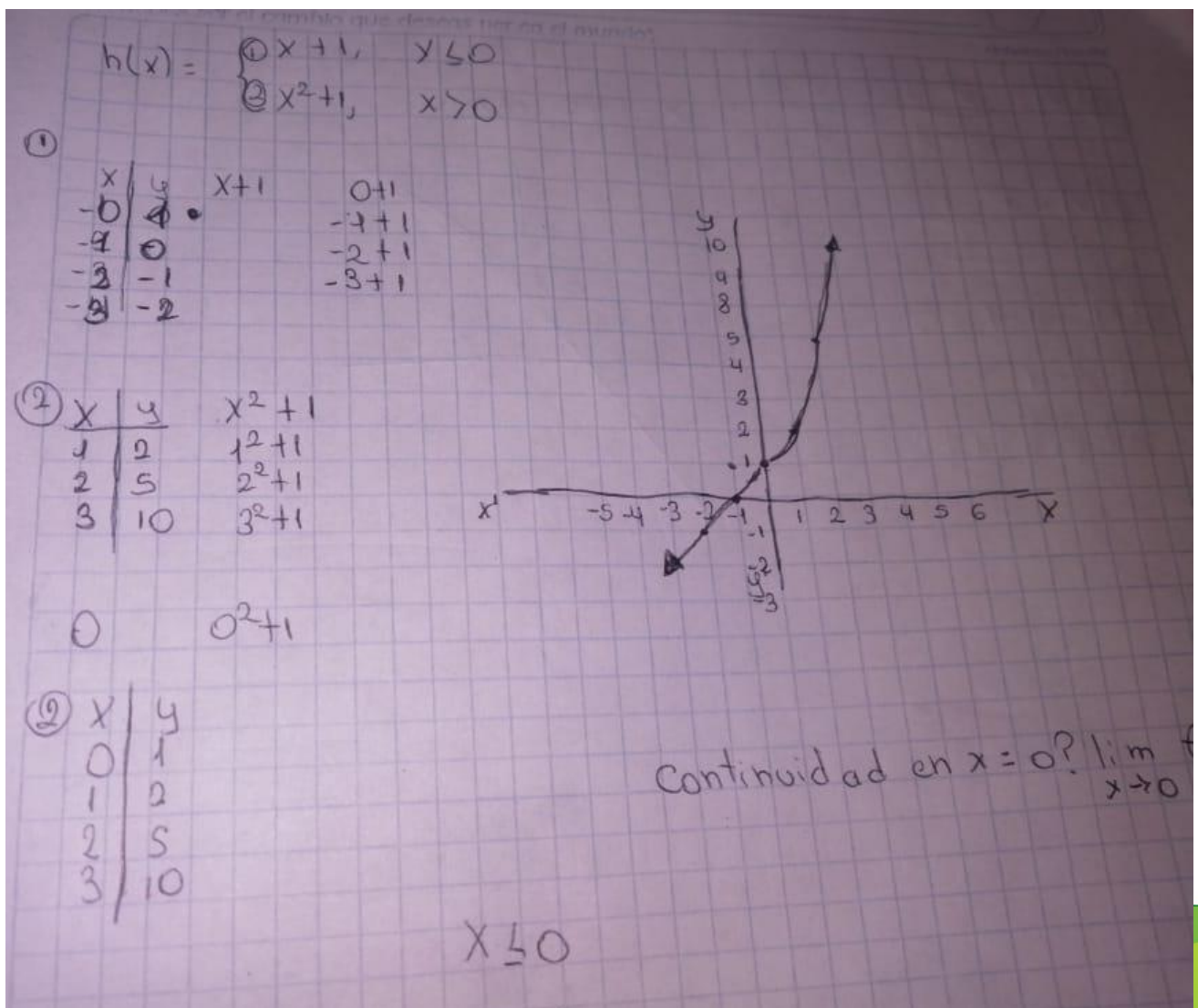
ANALIZAR LA CONTINUIDAD DE CADA FUNCIÓN

$$f(x) = \frac{1}{x}$$



$$g(x) = \frac{x^2 - 1}{x - 1}$$

$$h(x) = \begin{cases} x + 1, & x \leq 0 \\ x^2 + 1, & x > 0 \end{cases}$$



Handwritten mathematical work on grid paper:

$$g(x) = \frac{x^2 - 1}{x - 1} = \frac{x^2 - 1}{x - 1} \stackrel{?}{=} x - 1 = 0 \Rightarrow x = 1$$
$$g(x) = \frac{x^2 - 1}{x - 1}$$
$$g(x) = x - 1 = 0$$
$$g(x) = 1$$
$$x \in \mathbb{R} \setminus \{1\}$$

To the right of the equations is a graph of the function $y = x - 1$ on a Cartesian coordinate system. The line passes through the points $(0, -1)$ and $(1, 0)$, which are marked with dots and labeled. The line has a positive slope and extends across the grid.

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