

$$1) S(n) = \frac{n+1}{1 + \frac{1}{n+1}}$$

$$\begin{array}{l} n+1 \neq 0 \\ n \neq -1 \end{array} \quad \frac{1 + \frac{1}{n+1}}{n+1} \neq 0$$

$$\frac{n+1+1}{n+1} \neq 0$$

$$\text{logo: } \{n | n \neq -1, -2\}$$

$$\frac{n+2}{2n+2} \neq 0$$

$$n+2 \neq 0$$

$$n \neq -2$$