10) $\frac{x^2-2x+1}{x+1} = 0$

[Valeurs interdites : $x+1=0$
$x=-1 \rightarrow$ V.I.]

$x^2-2x+1=0$

$a=1 \quad b=-2 \quad c=1$

$\Delta = (-2)^2 - 4 \times 1 \times 1 = 4-4=0 \rightarrow$ 1 solution

$$x = -\frac{b}{2a} = -\frac{-2}{2} = \frac{2}{2} = 1$$

$$S = \{1\}$$

10 bis) $\frac{x^2-2x+1}{x-1} = 0$

V.I. : $x-1=0 \iff x=1$

$x^2-2x+1=0$

$\Delta=0 \rightarrow$ 1 solutions

$x = -\frac{b}{2a} = 1 \rightarrow$ V.I. ⚠

$\Rightarrow \quad S = \emptyset$