Exo 1

solution n°1 : $Gt = \frac{x_{A1}}{x_{A0}} = \frac{8,8}{400} = \frac{p1}{p0}$

or $p0 = 1000$ m $\Rightarrow$ $p1 = 22$ mm

$$f = \frac{p1 \cdot p0}{p1 + p0} = \underline{21 \text{ mm}}$$

solution n°2 : $\tan\theta = \frac{200}{1000} = \frac{4,4}{f}$ $\Rightarrow$ $f \simeq p1 \simeq \underline{22 \text{ mm}}$

Exo 2

$$\tan 45^\circ = \frac{x_{A0}}{1000} \Rightarrow x_{A0} = 1000 \text{ mm}$$

$$Gt = \frac{4,4}{1000} = \frac{p1}{p0} \Rightarrow p1 = 4,4 \text{ mm}$$

$$f = \frac{p1 \cdot p0}{p1 + p0} \simeq \underline{4.3 \text{ mm}}$$