Pression atmosphérique

$$p(z) = 1013{,}25\left(1 - \frac{0{,}0065 \cdot z}{288{,}15}\right)^{5{,}255}$$

$$p(z) = P_0\left(1 - \frac{0.0065 \times z}{288{,}15}\right)^{5.255}$$

$$\frac{p(z)}{P_0} = \left(1 - \frac{0.0065 \times z}{288{,}15}\right)^{5.255}$$

$$\left(\frac{p(z)}{P_0}\right)^{\frac{1}{5{,}255}} = 1 - \frac{0.0065 \times z}{288{,}15}$$

$$\frac{0.0065 \times z}{288{,}15} = 1 - \left(\frac{p(z)}{P_0}\right)^{\frac{1}{5{,}255}}$$

$$\boldsymbol{z = \frac{288,15}{0,0065}\left(1 - \left(\frac{p(z)}{P_0}\right)^{\frac{1}{5{,}255}}\right)}$$

$$\boldsymbol{P_0 = \frac{p(z)}{\left(1 - \frac{0.0065 \times z}{288,15}\right)^{5.255}}}$$

P_0 : pression à l'altitude 0 m

z : altitude

$p(z)$: pression à l'altitude z