Act. nº 2 pag 19. (TS)

Datos

$m = 1000\ kg$

$h = 15\ m$

$t = \frac{1}{4}\ min$

$W = ?$

$P = ?$

$\frac{1}{4}\ min = 0'25\ \cancel{min} \cdot \frac{60\ s}{1\ \cancel{min}} = 15\ s$

a) $W = E_p = mgh = 1000 \cdot 9'8 \cdot 15 = 147.000\ J = 147\ kJ$

b) $P = \frac{W}{t} = \frac{147 \cdot 10^3}{15} = 9800\ W.$