

Question 30624

Squal goes without acceleration hence according to 2nd Newton's law force of gravitation is equal by absolute value to the force that squal exerts ($F = m g$).

Power is calculated as $P = \frac{A}{t} = \frac{F \cdot s}{t} = \frac{m g s}{t}$, where A denotes work done by moving s meters exerting force F .

Plugging values and calculating, obtain from the latter formula $P = 1718.75 W$.