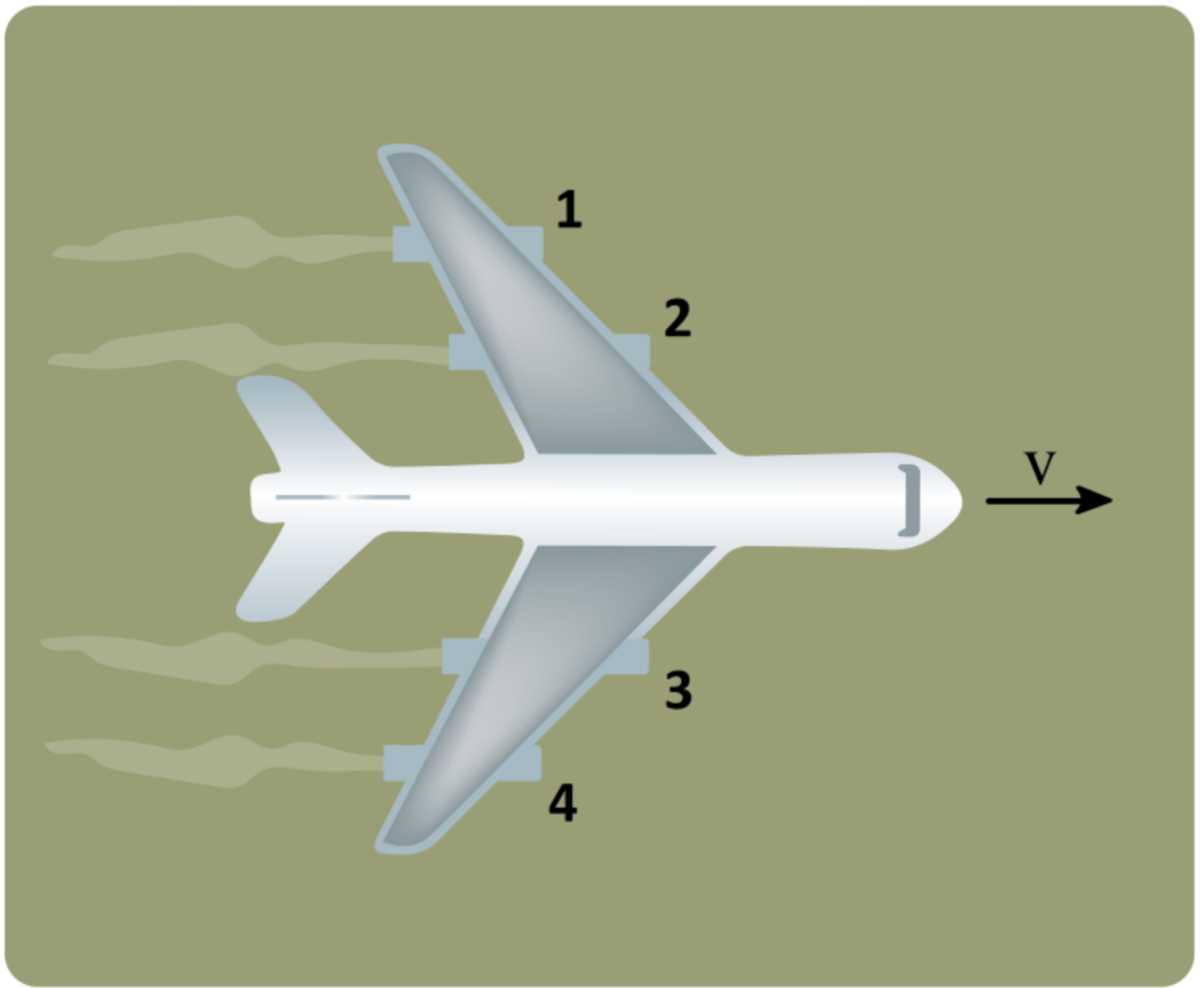


21-P-WE-GD-013



Four turbojet engines are mounted on a commercial aircraft with a mass of m_p kg. Each engine produces a forward thrust of F N. What is the total power output of the plane when it is travelling at it's cruising speed of $\frac{V}{2}$ km/h?

(Assume $g = 9.81 \text{ m/s}^2$)

given

m_p, F, v

find

P

Power in one engine

$$P = F \cdot v$$

Total Power

$$\underline{P_{\text{tot}} = 4P}$$