

19. A wind turbine generates a power of P kilowatts when the wind speed is w m/s.

P is proportional to w^3 .

$P = 300$ when $w = 12$.

- (a) Find a formula for P in terms of w .

$$\begin{aligned} P &= kW^3 \\ 300 &= k \times 12^3 \\ k &= \frac{300}{12^3} = \frac{25}{144} \end{aligned} \quad P = \frac{25}{144} w^3$$

- (b) Calculate the value of P when $w = 7.5$.

Give your answer correct to 3 significant figures.

$$\begin{aligned} P &= \frac{25}{144} \times 7.5^3 = 73.247 \\ &\approx 73.2 \end{aligned}$$

- (c) When the wind speed is x m/s, the wind turbine generates twice as much power as it does when the wind speed is 10 m/s.

Calculate the value of x .

Give your answer correct to 3 significant figures.

$$\text{Power at } 10 \text{ m/s} = \frac{25}{144} \times 10^3$$

November 2007 Maths Igcse 3h

Victor M. Corman



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