

- 1** The maximum theoretical power P of a wind turbine is given by the equation

$$P = k \rho A v^n,$$

where ρ is the density of air, A is the area swept by the turbine blades, v is the speed of the air and k is a constant with no units.

What is the value of n ?

- A** 1 **B** 2 **C** 3 **D** 4