1   The speed v of a liquid leaving a tube depends on the difference in pressure ΔP between the ends of the tube and the density ρ of the liquid according to the equation

$$v = k\left(\frac{\Delta P}{\rho}\right)^n$$

where k is a unitless constant.

What is the value of n?

A $\dfrac{1}{2}$ **B** 1   **C** $\dfrac{3}{2}$ **D** 2