

1 (a) (i) Define *pressure*.

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..... [1]

(ii) State the units of pressure in base units.

..... [1]

(b) The pressure p at a depth h in an incompressible fluid of density ρ is given by

$$p = \rho gh,$$

where g is the acceleration of free fall.

Use base units to check the homogeneity of this equation.

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..... [3]