

- 1 Functions f and g are defined by

$$f: x \mapsto 3x + 2, \quad x \in \mathbb{R},$$

$$g: x \mapsto 4x - 12, \quad x \in \mathbb{R}.$$

Solve the equation $f^{-1}(x) = g(x)$.

[4]

- 2 In the expansion of $(x + 2k)^7$, where k is a non-zero constant, the coefficients of x^3 and x^4 are equal. Find the value of k .

[4]

3

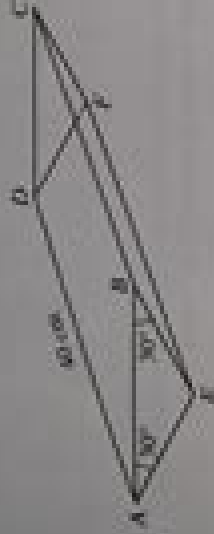


Fig. 1



Fig. 2

Fig. 1 shows an open tank in the shape of a triangular prism. The vertical ends ABE and DCF are identical isosceles triangles. Angle $ABE = \text{angle } BAE = 30^\circ$. The length of AD is 40 cm. The tank is fixed in position with the open top $ABCD$ horizontal. Water is poured into the tank at a constant rate of $200 \text{ cm}^3 \text{ s}^{-1}$. The depth of water, t seconds after filling starts, is h cm (see Fig. 2).

- (i) Show that, when the depth of water in the tank is h cm, the volume, $V \text{ cm}^3$, of water in the tank is given by $V = (40\sqrt{3})h^2$. [3]

- (ii) Find the rate at which h is increasing when $h = 5$. [3]

- 4 (i) Prove the identity $\left(\frac{1}{\sin x} - \frac{1}{\tan x} \right)^2 = \frac{1 - \cos x}{1 + \cos x}$. [4]

- (ii) Hence solve the equation $\left(\frac{1}{\sin x} - \frac{1}{\tan x} \right)^2 = \frac{1}{2}$ for $0 \leq x \leq 2\pi$. [3]

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