

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  $x^4$  and  $x^5$  are equal. Find the value of  $k$ .

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  $BAE = \text{angle } BAE = 30^\circ$ . 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  $V = (40h^3)/6^2$ . [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  $0 < x < 2\pi$ . [3]

# Mathematics 9709 Question Paper 12 October 2013

**Jiyuan Zhang**



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