

Level 2 Certificate

Name: _____

FURTHER MATHEMATICS

Predicted Paper 2

Total = 80 marks Calculator Allowed

Time Allowed: 1 hour 45 minutes

1. $f(x) = x^2 - 4x + 3 \quad x \geq 0$

$g(x) = x - 3 \quad x \geq 0$

$h(x) = \frac{x}{3x+2} \quad x > -2/3$

(a) Find the range for $f(x)$

$$f(x) = (x-2)^2 - 1 \quad \min = (2, -1) \quad f(x) \geq -1 \quad (3 \text{ marks})$$

(b) Solve $f_g(x) = 0$

$$\begin{aligned} f_g(x) &= (x-3)^2 - 4(x-3) + 3 \\ &= x^2 - 6x + 9 - 4x + 12 + 3 \end{aligned} \quad (3 \text{ marks})$$

(c) Find $h^{-1}(x)$

$$\begin{aligned} y &= \frac{x}{3x+2}, \quad x = \frac{y}{3y+2} \quad 3xy + 2 = y \quad (x-4)(x+6) = 0 \\ &3xy + 2x = y \quad 3xy + 2x - y = 0 \quad x = -4 \text{ or } 6 \quad (3 \text{ marks}) \\ &y(3x-1) = -2x \quad y = \frac{-2x}{3x-1} \quad \text{so } h^{-1}(x) = \frac{-2x}{3x-1} \text{ or } \frac{2x}{1-3x} \end{aligned}$$

2. (a) Factorise fully $(5x - 2y)^2 - (x + 6y)^2$

$$\begin{aligned} \text{P.O.T.S. } (5x-2y + x+6y)(5x-2y - (x+6y)) &\quad (3 \text{ marks}) \\ (6x+4y)(4x-4y) &= 2(2x+2y)(2x-2y) \\ 2(2x+2y) + (x-2y) &= 3(2x+2y)(x-2y) \end{aligned}$$

(b) Factorise fully $(x+5)^2 - 4(x+5)^2$

$$\begin{aligned} (x+5)^2(2x+5-4) &\quad (3 \text{ marks}) \\ (x+5)^2(2x+1) & \end{aligned}$$

3. $\sin x = k$, where x is an obtuse angle

Find the value of $\cos x$ in terms of k .

$$\begin{aligned} \sin^2 x + \cos^2 x &= 1 \\ k^2 + \cos^2 x &= 1 \quad (3 \text{ marks}) \\ \cos^2 x &= 1 - k^2 \end{aligned}$$



$$\cos x = \pm \sqrt{1 - k^2} \quad (2 \text{ marks})$$

But x is obtuse (see graph)
 $\therefore \cos x < 0$
 $\cos x = -\sqrt{1 - k^2} \quad (3 \text{ marks})$

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