

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 $f(x)$

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

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

$f_g(x) = (x-3)^2 - 4(x-3) + 3$
 $= x^2 - 6x + 9 - 4x + 12 + 3$
 $x^2 - 10x + 24 = 0$ [3 marks]

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

$y = \frac{x}{3x+2}, \quad x = \frac{y}{3y+2} \quad x(3y+2) = y$
 $3xy + 2x = y$
 $y(3x-1) = -2x$
 $y = \frac{-2x}{3x-1} \quad \text{so } \underline{h^{-1}(x) = \frac{-2x}{3x-1} \text{ or } \frac{2x}{1-3x}}$ [3 marks]

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

D.O.T.S $(5x-2y+x+6y)(5x-2y-x-6y)$
 $(6x+4y)(4x-8y)$
 $2(3x+2y) \cdot 4(x-2y) = 8(3x+2y)(x-2y)$ [3 marks]

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

$(x+5)^2(x+5-4)$
 $(x+5)^2(x+1)$ [3 marks]

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

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

$\sin^2 x + \cos^2 x = 1$
 $k^2 + \cos^2 x = 1$
 $\cos^2 x = 1 - k^2$



$\cos x = \pm \sqrt{1 - k^2}$

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

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