

# 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  $f(x)$

[3 marks]

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

[3 marks]

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

[3 marks]

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

[3 marks]

(b) Factorise fully  $(x + 5)^3 - 4(x + 5)^2$

[3 marks]

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

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

[2 marks]

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**Chao Zhang**



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