# Level 2 Certificate

Name:\_\_\_\_\_

# FURTHER MATHEMATICS

# Predicted Paper 2

Total = 80 marks Calculator Allowed Time Allowed: 1 hour 45 minutes

1  $f(x) = x^2 - 4x + 3$   $x \ge 0$  g(x) = x - 3  $x \ge 0$ 

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

(a) Find the range for f(x)

$$f(x) = (x-2)^2 - 1$$
 min =  $(2,-1)$   $f(x) \ge -1$  [3 marks  
Solve  $fg(x) = 0$ 

(b) Solve  $f_{5}(x) = 0$  $f_{5}(x) = (0x-3)^{2} - 4(x-3) + 3x$  [3 marks]

(c) Find h<sup>1</sup>(x) 
$$x^2 - lose + lt = 0$$
  $(x - 4)(x - 6) = 0$   
 $y = \frac{3c}{3x+2}$ ,  $x = \frac{y}{3y+1}$   $\frac{2(ly+2) = y}{3xy + 2x = y}$   $\frac{3xy - y = -lx}{3xy - y = -lx}$   $\frac{3xy - y = -lx}{3xy - y}$ 

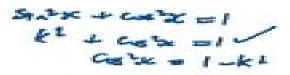
(a) Factorise fully (5x - 2y)2 - (x + 6y)2

(a) Factorise fully 
$$(5x-2y)^2 - (x+6y)^2$$
  
 $9.0.7.5$   $(5x-3y+x+6y)(5x-3y-(04+6y))$  [3 marks]  
 $(6x+4y)(fx-3y)= x(3x+2y)(2x-2y)$   
(b) Factorise fully  $(x+5)^2 - 4(x+5)^2$ 

(b) Factorise fully (x + 5)\* - 4(x + 5)\*

[3 marks]

3 sin x = k, where x is an obtuse angle Find the value of cos x in terms of k.



- there

(2 marks)

But so is a biture (see seam)

2

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