

# Higher Maths 2009 Paper 1

## Section A

1)  $U_{n+1} = 3U_n + 4$

$$U_1 = 2$$

$$U_2 = 3(2) + 4 = 10$$

$$U_3 = 3(10) + 4 = \underline{\underline{34}}$$

A

2)  $x^2 + y^2 + 8x + 6y - 75 = 0$

$$2g = 8 \quad 2f = 6 \quad c = -75$$

$$g = 4 \quad f = 3$$

$$r = \sqrt{g^2 + f^2 - c}$$

$$= \sqrt{4^2 + 3^2 - (-75)}$$

$$= \sqrt{100}$$

$$= \underline{\underline{10}}$$

B

3) S is the midpoint of QR

$$S\left(\frac{-1+3}{2}, \frac{4+6}{2}\right) \quad \text{MPS} = \frac{5 - (-2)}{1 - (-3)}$$

$$S(1, 5)$$

$$= \frac{7}{4}$$

D

# Higher Maths Worked Solutions

**Royal Society of Edinburgh**



## Higher Maths Worked Solutions:

## Higher Maths Worked Solutions Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Higher Maths Worked Solutions**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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