

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

$$S\left(\frac{-1+3}{2}, \frac{4+6}{2}\right)$$

$$S(1, 5)$$

$$M_{PS} = \frac{5 - (-2)}{1 - (-3)}$$

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

D

Higher Maths Worked Solutions

**Tabitha Steel, Coral Thomas, Mark
Dawes, Steven Watson**



Higher Maths Worked Solutions:

How to Pass Higher Maths, Second Edition Brian Logan, 2018-12-03 Exam Board SQA Level Higher Subject Mathematics First Teaching August 2018 First Exam May 2019 Get your best grade with comprehensive course notes and advice from Scotland's top experts fully updated for the latest changes to SQA Higher assessment How to Pass Higher Maths Second Edition contains all the advice and support you need to revise successfully for your Higher exam It combines an overview of the course syllabus with advice from a top expert on how to improve exam performance so you have the best chance of success Revise confidently with up to date guidance tailored to the latest SQA assessment changes Refresh your knowledge with comprehensive tailored subject notes Prepare for the exam with top tips and hints on revision techniques Get your best grade with advice on how to gain those vital extra marks

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