

Further Mathematics

**FURTHER MATHEMATICS**

A picture containing text, font, screenshot, document

Description automatically generated



A picture containing text, font, white, receipt

Description automatically generated



A picture containing text, font, typography, calligraphy

Description automatically generated

A picture containing text, font, line, typography

Description automatically generated

A picture containing text, screenshot, font, line

Description automatically generated

A picture containing text, screenshot, line, font

Description automatically generated

A picture containing text, line, screenshot, font

Description automatically generated

A picture containing text, screenshot, font, number

Description automatically generated

You can watch the following videos to help you with the exercise:

[Real and imaginary numbers - ExamSolutions | Further-Core-Maths-A-Level | A-Level | AQA](https://www.examsolutions.net/tutorials/real-imaginary-numbers/?level=A-Level&board=AQA&module=Further-Core-Maths-A-Level&topic=1745)

[Addition, subtraction and multiplying complex numbers and simplifying powers of i - ExamSolutions | Further-Core-Maths-A-Level | A-Level | AQA](https://www.examsolutions.net/tutorials/addition-subtraction-multiplying-complex-numbers-simplifying-powers/?level=A-Level&board=AQA&module=Further-Core-Maths-A-Level&topic=1745)

[Complex conjugates - ExamSolutions | Further-Core-Maths-A-Level | A-Level | AQA](https://www.examsolutions.net/tutorials/complex-conjugates/?level=A-Level&board=AQA&module=Further-Core-Maths-A-Level&topic=1745)

[Division of a complex number by a complex number - ExamSolutions | Further-Core-Maths-A-Level | A-Level | AQA](https://www.examsolutions.net/tutorials/division-complex-number-complex-number/?level=A-Level&board=AQA&module=Further-Core-Maths-A-Level&topic=1745)

**Consolidation example**

A picture containing text, screenshot, font

Description automatically generated

**Exercise. (Please show your workings).**

**1.** Simplify expression:

(a)

(b)

(c)

**2.** Solve equations:

(a) 

(b) 

(c) 

**3.**

A picture containing text, font, white, typography

Description automatically generated

(a) A picture containing text, clock, font, number

Description automatically generated

(b) A picture containing text, font, number, white

Description automatically generated

(c) A picture containing text, font, number, white

Description automatically generated

**4.**

A picture containing text, font, line, screenshot

Description automatically generated

**5. (Challenge)**

A picture containing text, font, white, calligraphy

Description automatically generated

**Answers:**

**1.** (a) ; (b) ; (c) 

**2.** (a) ; (b) ; (c) 

**3.** (a) A picture containing text, font, number, typography

Description automatically generated; (b) A picture containing text, clock, number, font

Description automatically generated; (c) 

**4.**

A picture containing text, font, white, number

Description automatically generated

**5.** 

**Assignment**

**1.**

A picture containing text, screenshot, font, number

Description automatically generated

**2.**

A picture containing text, screenshot, font, algebra

Description automatically generated

**3.**

A picture containing text, receipt, font, algebra

Description automatically generated

**4.**

A picture containing text, receipt, font, white

Description automatically generated