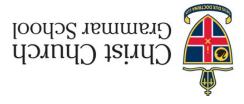
2018 UNIT TEST 2



to the supervisor before reading any further.

Important note to candidates

Special items:

MATHEMATICS METHODS Year 11 Section One:

Section One: Calculator-free

	To be provided by the candidate Standard items: pens (blue/black preferred correction fluid/tape, erase
Materials required/recommended for this section To be provided by the supervisor This Question/Answer Booklet Formula Sheet	
Teacher name	
	Student name

No other items may be taken into the examination room. It is **your** responsibility to ensure that you do not have any unauthorised notes or other items of a non-personal nature in the examination room. If you have any unauthorised material with you, hand it

Instructions to candidates

- Write your answers in this Question/Answer Booklet.
- 2. Answer all questions.
- You must be careful to confine your response to the specific question asked and to follow any instructions that are specific to a particular question.

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- 4. Supplementary pages for the use of planning/continuing your answer to a question have been provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e. give the page number.
- 5. Show all your working clearly. Your working should be in sufficient detail to allow your answers to be checked readily and for marks to be awarded for reasoning. Incorrect answers given without supporting reasoning cannot be allocated any marks. For any question or part question worth more than two marks, valid working or justification is required to receive full marks. If you repeat an answer to any question, ensure that you cancel the answer you do not wish to have marked.
- 6. It is recommended that **you do not use pencil**, except in diagrams.

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(a) Solve the following equation:

Question number:

Additional working space

(S marks) $x \angle - = {}^{2}x +$

(b) Solve the following equation exactly for x by completing the square:

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 $0 = 2 + x9 + ^2x$

(4 marks)

(e warks)

See next page

CALCULATOR-FREE

(4 marks)

Question 2

(3 marks)

Solve the following equation:

$$\frac{x-3}{2} - \frac{2x-4}{3} - 5 = 0$$

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Question 3 (2 marks)

Solve the following equation for x:

$$ax + b = cx + d$$

giving your answer for x in terms of a, b, c and d.

Question 4

Use the turning point and the y intercept to sketch a graph of

$$y = -2(x+1)^2 + 4$$

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