

DO NOT WRITE IN THIS AREA

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Answer all ELEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1** Given that $\frac{a + \sqrt{3}}{2 - \sqrt{3}} = 11 + b\sqrt{3}$ where a and b are integers,

find the value of a and the value of b .

(4)

(Total for Question 1 is 4 marks)



P 6 0 4 7 5 A 0 3 3 6