

**3. Simplify**

$$\frac{5-\sqrt{3}}{2+\sqrt{3}},$$

giving your answer in the form  $a + b\sqrt{3}$ , where  $a$  and  $b$  are integers.

**(4)****Q3****(Total 4 marks)**

(2)

**(Total 2 marks)**



(3)

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2. (a) Expand and simplify  $(7 + \sqrt{5})(3 - \sqrt{5})$ . (3)

(b) Express  $\frac{7 + \sqrt{5}}{3 + \sqrt{5}}$  in the form  $a + b\sqrt{5}$ , where  $a$  and  $b$  are integers. (3)

Handwriting practice lines for the answer to question 2(b).

(Total 6 marks)

Q2



