Answer all TEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1   Given that $\dfrac{2\sqrt{3}-4}{3\sqrt{3}+5}$ can be written in the form $a + b\sqrt{3}$ where a and b are integers,

find, without using a calculator, the value of a and the value of b

Show your working clearly.

(3)

(Total for Question 1 is 3 marks)