2. Find

$$\int (x-3)^2(2x+5)\,\mathrm{d}x$$

writing the answer in simplest form.

(5)

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Question 2 continued

(Total for Question 2 is 5 marks)

3. The sides of a triangle are in the ratio $2 : 4 : 5$

(a) Find the size of the **largest** angle of the triangle, in degrees, to one decimal place.

(2)

Given that the area of the triangle is $140\,cm^2$

(b) find the length of the **shortest** side, in cm, to one decimal place.

(3)

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