

2

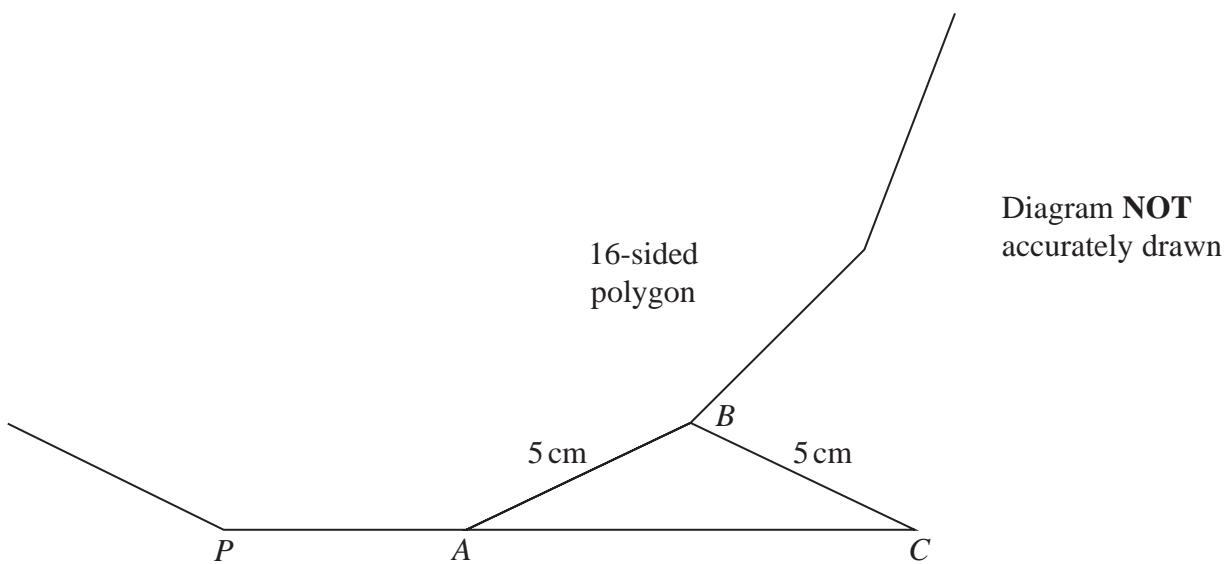
**Figure 1**

Figure 1 shows part of a regular 16-sided polygon in which  $PA$  and  $AB$  are two sides.  
Figure 1 also shows the isosceles triangle  $ABC$  in which  $AB = CB = 5\text{ cm}$ .

$PAC$  is a straight line.

Calculate the length, in cm to 3 significant figures, of  $AC$ .

(4)

$$\begin{bmatrix} \text{Sum of interior angles of polygon} \\ (2n - 4) \text{ right angles} \end{bmatrix}$$

(Total for Question 2 is 4 marks)

