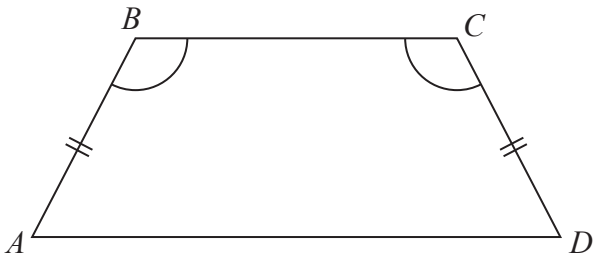
Summer 2017 Paper 1 Q21

1 *ABCD* is a quadrilateral.



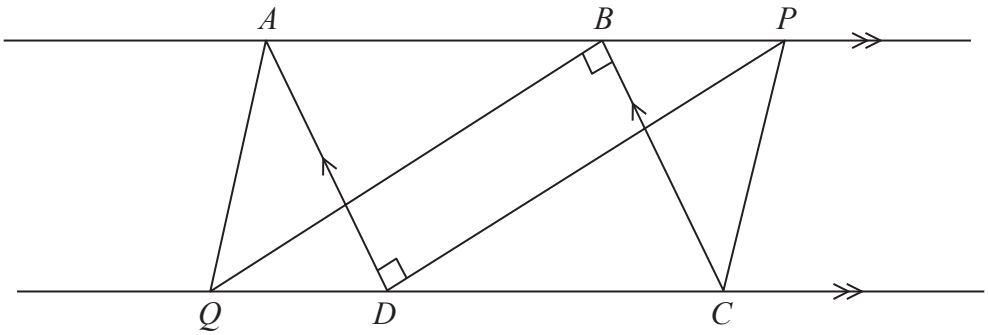
AB = *CD*.
Angle *ABC* = angle *BCD*.

Prove that *AC* = *BD*.

(Total for Question 1 is 4 marks)

Summer 2018 Paper 3 Q21

2



ABCD is a parallelogram.
ABP and *QDC* are straight lines.
Angle *ADP* = angle *CBQ* = 90°

(a) Prove that triangle *ADP* is congruent to triangle *CBQ*.

(3)

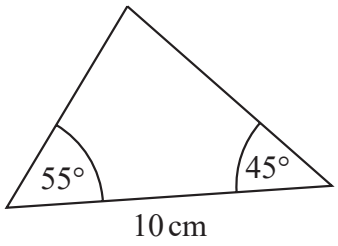
(b) Explain why *AQ* is parallel to *PC*.

(2)

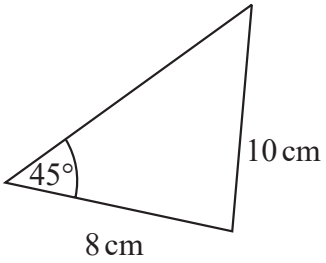
(Total for Question 2 is 5 marks)

Summer 2020 Paper 1 Q4

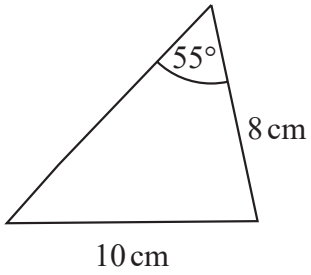
3 The diagram shows four triangles.



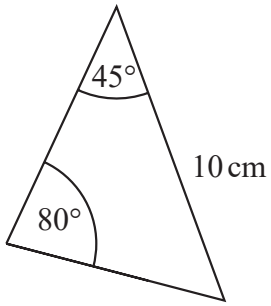
Triangle **A**



Triangle **B**



Triangle **C**



Triangle **D**

Two of these triangles are congruent.

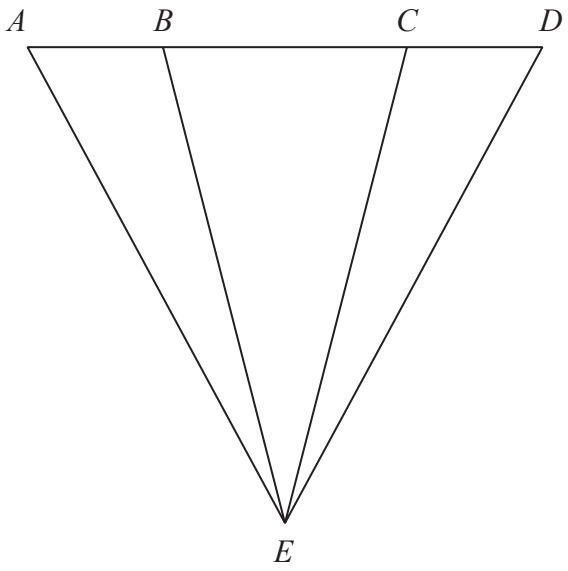
Write down the letters of these two triangles.

..... and .....

(Total for Question 3 is 1 mark)

Autumn 2022 Paper 3 Q20

4 The diagram shows a triangle ADE.



$AE = DE$
$AB : BC : CD = 1 : 2 : 1$

Prove that triangle ACE is congruent to triangle DBE.

(Total for Question 4 is 3 marks)