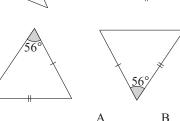
TASK **4.10**

1. *Explain* why these two triangles are congruent.



2. *Explain* why these two triangles are *not* congruent.



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- AB is parallel to DE.
 BC = CD.
 Prove that triangles ABC and CDE are congruent.
- a Prove that triangles ACX and ACY are congruent.
 b *Explain* why AY = CX.
- 5. ABCD is a parallelogram. Prove that triangles ABD and CBD are congruent.
- 6. PR = RS. Prove that triangles PQR and RTS are congruent.
- 7. Triangle BCE is isosceles as shown. AB = ED.
 - **a** Prove that triangles ABC and CED are congruent.
 - **b** *Explain* why angle BAC = angle CDE.
- 8. PQRS is a kite. Use congruent triangles to prove that diagonal PR bisects angle SPQ.
- **9.** Triangle ABC is isosceles with AB = BC. M and N are the midpoints of AB and BC respectively.
 - PQBM and BRSN are both squares.
 - **a** Prove that triangles BRM and BNQ are congruent.
 - **b** Explain why MR = NQ.

