

Congruent Triangles Answers

Workout

1(a): SSS 1(b): SAS 1(c): ASA 1(d): RHS

1(e): ASA 1(f): SAS 1(g): SSS 1(h): RHS

1(i): ASA

Question 2:

Triangles A and F

Triangles C and D and E

Question 3: Yes, ASA

Question 4: No

Question 5: No

Question 6: No

Apply

Question 1: No - The positions of the one angle and one side may be different.

Question 2: Yes, SSS

Question 3: No (may be congruent but may not be. They would be similar)

Question 4:

Since the opposite angles in a parallelogram are equal, Angle BAD = Angle BCD
Since the opposite sides of a parallelogram are equal in length, AB = CD and BC = AD

Therefore ABD is congruent to BCD due to Side-Angle-Side

Question 5:

CD = FE (given in question)
Angle DCG = Angle GEF (Alternate angles are equal)
Angle CDG = Angle GFE (Alternate angles are equal)

Therefore CDG and EFG are congruent due to Angle-Side-Angle