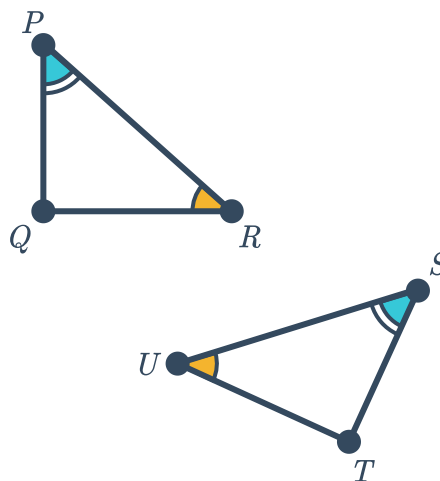
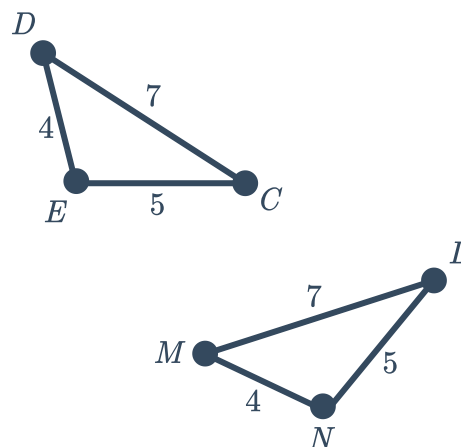


Corresponding sides and angles

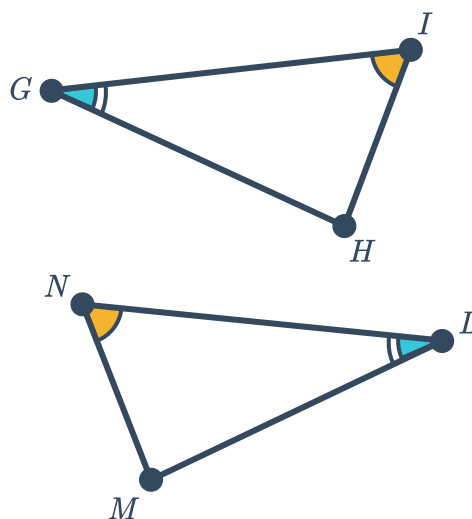
- 1 It is known that $\triangle PQR \equiv \triangle STU$.
State the three pairs of equal sides.



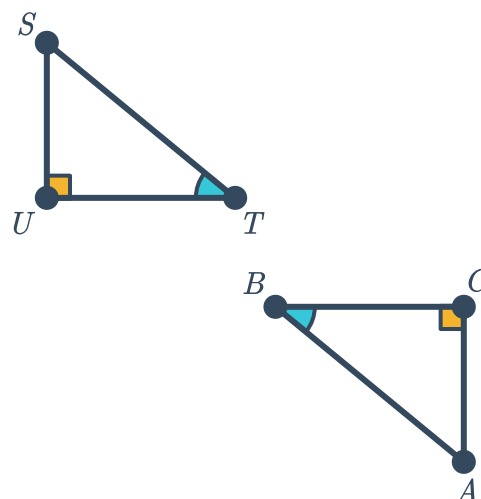
- 2 It is known that $\triangle CDE \equiv \triangle LMN$.
State the three pairs of equal angles.



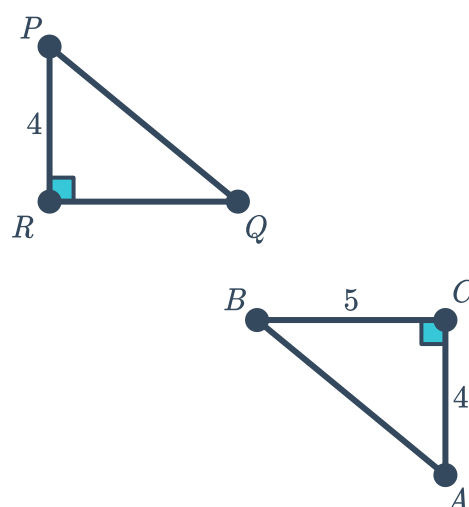
- 3 It is known that $\triangle GHI \equiv \triangle LMN$.
State the three pairs of equal sides.



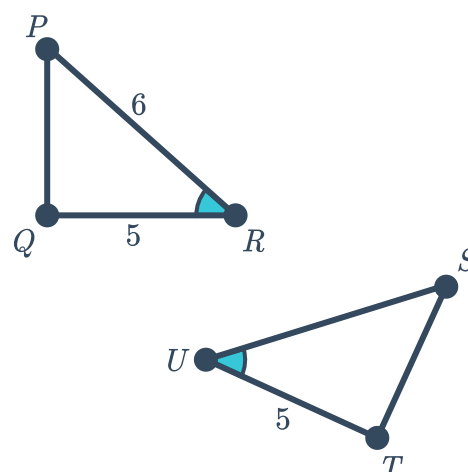
- 4 It is known that $\triangle STU \equiv \triangle ABC$.
State the three pairs of equal sides.



- 5 It is known that $\triangle PQR \equiv \triangle ABC$.
State the three pairs of equal angles.

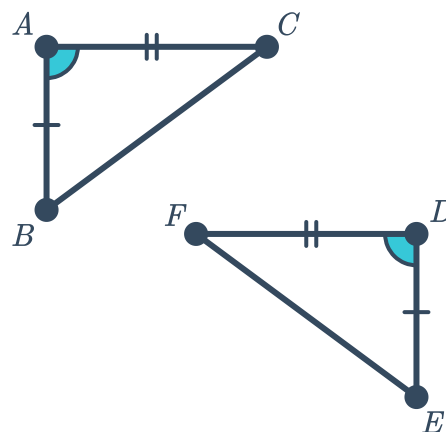


- 6 It is known that $\triangle STU \equiv \triangle PQR$.
- State the three pairs of equal sides.
 - State the three pairs of equal angles.



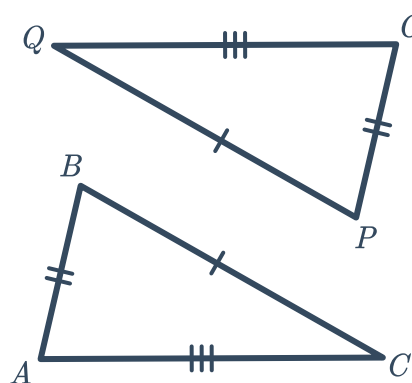
7 It is given that the triangles $\triangle ABC$ and $\triangle DEF$ are congruent.

- a State the three pairs of equal sides.
- b State the three pairs of equal angles.



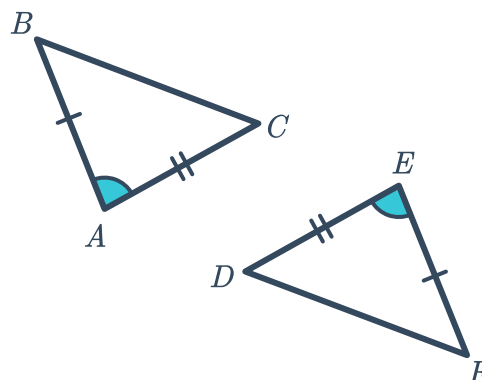
8 It is known that $\triangle QPO \equiv \triangle CBA$.
Find the angle of $\triangle QPO$ that corresponds to the following angles of $\triangle CBA$:

- a $\angle ABC$
- b $\angle BCA$



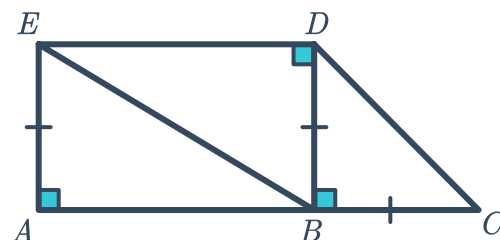
9 It is known that $\triangle BAC \equiv \triangle FED$.
Find the angle of $\triangle FED$ that corresponds to the following angles of $\triangle BAC$:

- a $\angle ABC$
- b $\angle CAB$



10 Consider the adjacent figure:

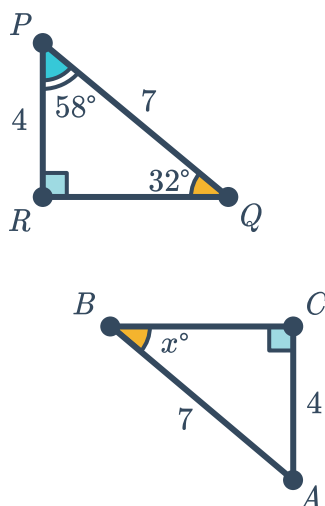
- a Find the triangle congruent to $\triangle EAB$.
- b Find the angle that corresponds to:
 - i $\angle EBA$
 - ii $\angle BEA$
- c Find the side that corresponds to:
 - i AB
 - ii AE



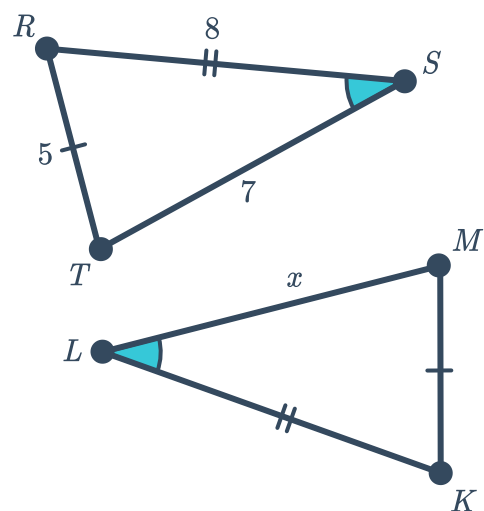
Unknown sides and angles

11 Find the value of the pronumeral in the following pairs of congruent triangles:

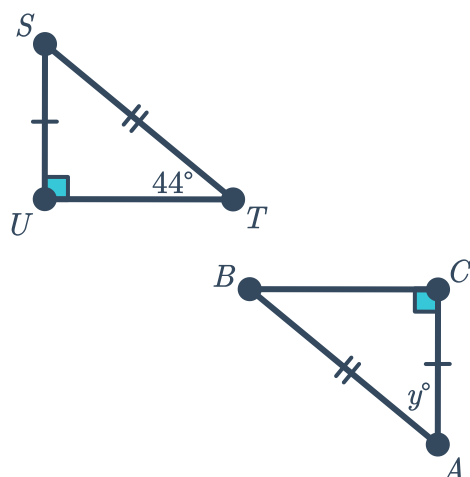
a



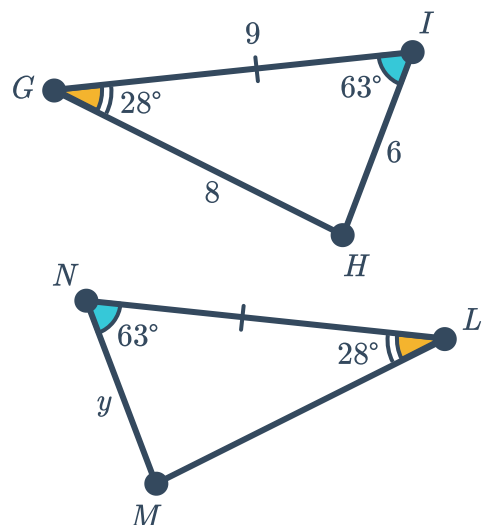
b



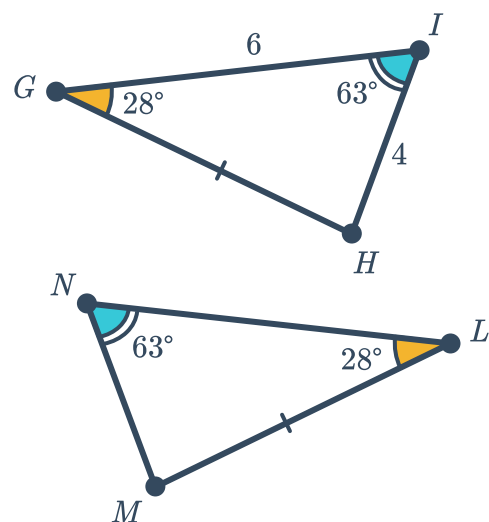
c



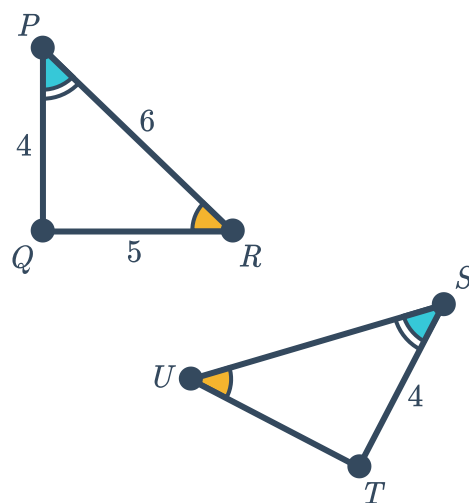
d



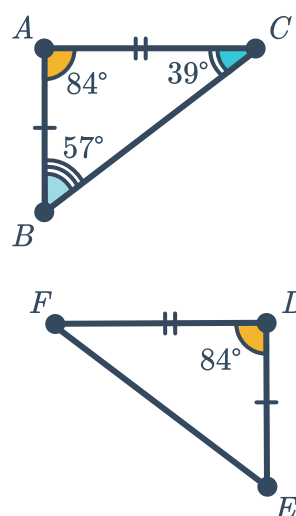
- 12 Given that the following two triangles are congruent, find the length of NM .



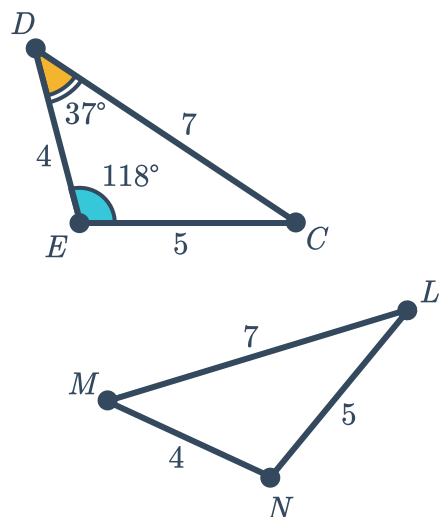
- 13 Given that the following two triangles are congruent, find the length of SU .



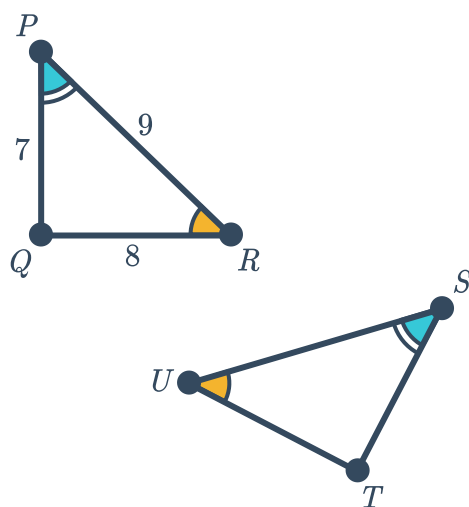
- 14 Given that the following two triangles are congruent, find the size of $\angle DEF$.



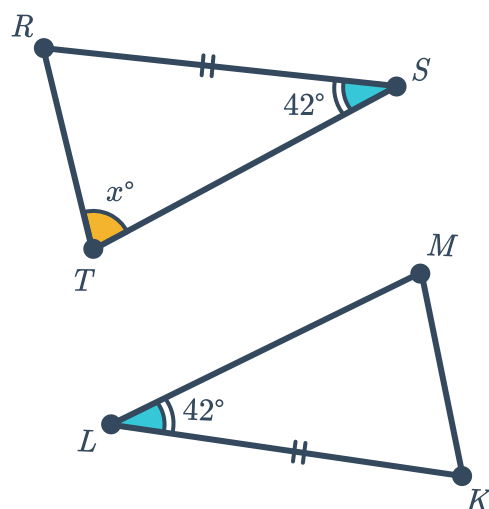
- 15 Given that the given two triangles are congruent, find the size of the angle $\angle NLM$.



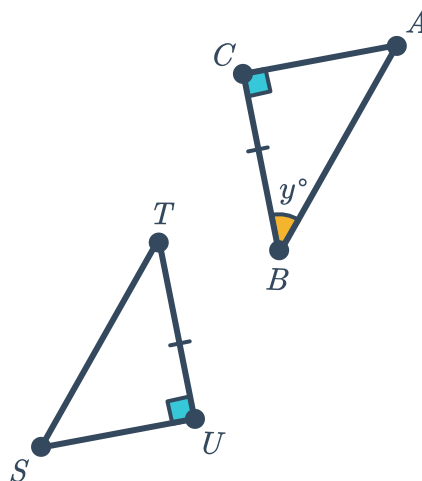
- 16 Given that the given two triangles are congruent, find the length of the side SU .



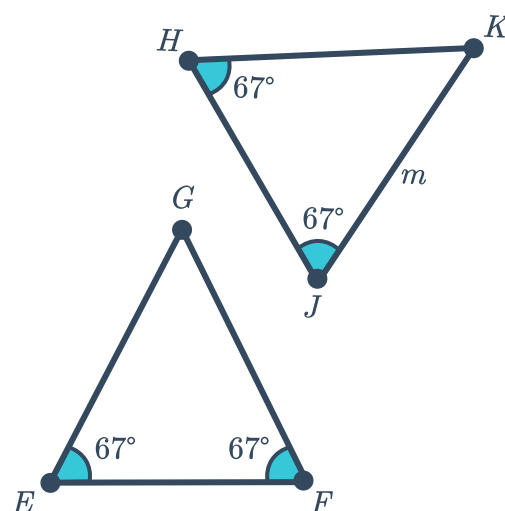
- 17 Consider the following triangles:
Given that $LM = ST$, and $\angle LMK = 79^\circ$,
find the value of x .



- 18** Consider the following triangles:
 Given that $AB = ST$, and $\angle UST = 48^\circ$, find the value of y .

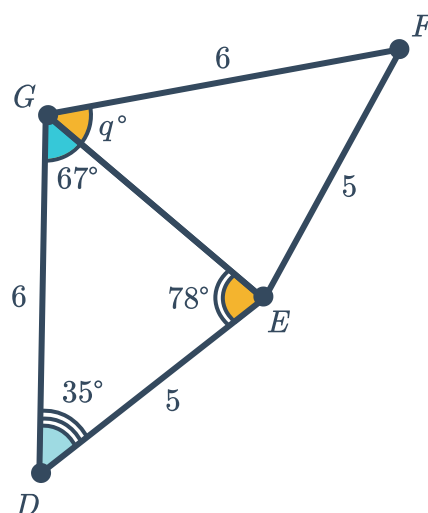


- 19** Consider the following triangles:
 Given that $EF = HJ$, and $EG = 7$, find the value of m .



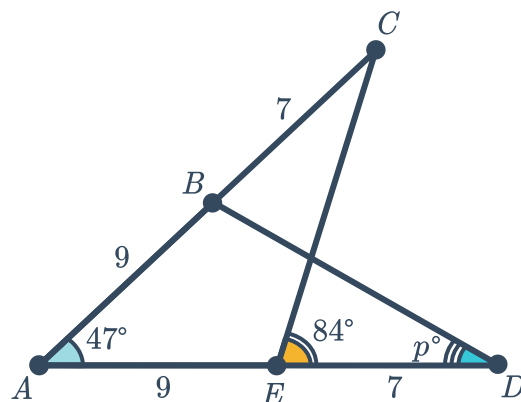
- 20** Consider the diagram:

- State the test that proves triangles $\triangle DEG$ and $\triangle FEG$ are congruent.
- Find the value of q .



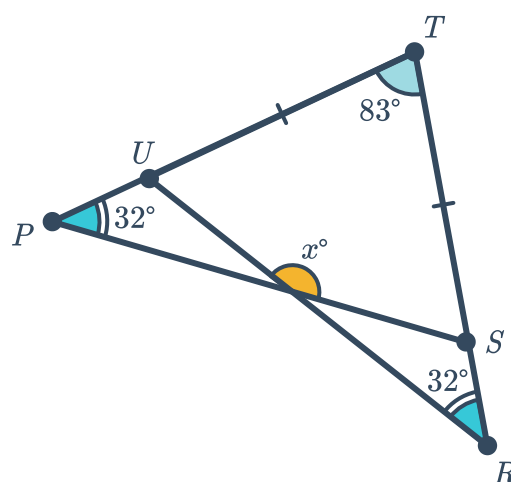
21 Consider the diagram where AD and AC are straight lines:

- State the test that proves triangles $\triangle ACE$ and $\triangle ADB$ are congruent.
- Find the value of p .



22 Consider the diagram where PT and RT are straight lines:

- State the test that proves triangles $\triangle PTS$ and $\triangle RTU$ are congruent.
- Find the value of x .



23 Consider the diagram where JL and KN are straight lines:

- State the test that proves triangles $\triangle JKN$ and $\triangle MKL$ are congruent.
- Find the value of y .

