

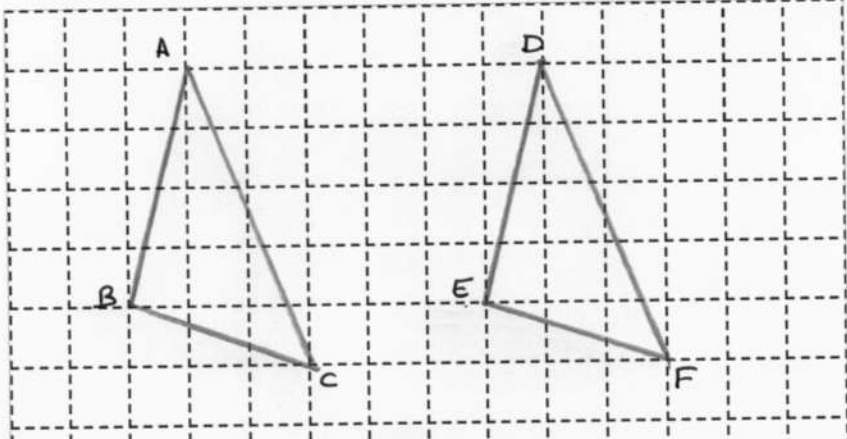
Sample Student Proofs

Kieran and Jorge both investigated Card 5:

Two sides of Triangle A are the same lengths as two sides of Triangle B
and
one angle in Triangle A is the same size as one angle in Triangle B.

Jorge says the triangles must be congruent.

Jorge. You have 2 triangles two sides of one equal to two sides of the other and the angle in between equal.
 $AB = DE$ $BC = EF$ $\angle ABC = \angle DEF$.
Slide ABC onto DEF. AB fits onto DE exactly. B the point is on E. $\angle ABC = \angle DEF$ so BC goes in the direction of EF. $BC = EF$. So the other points are on top of each other and if you join them up you get congruent triangles.



Do you agree with Jorge?

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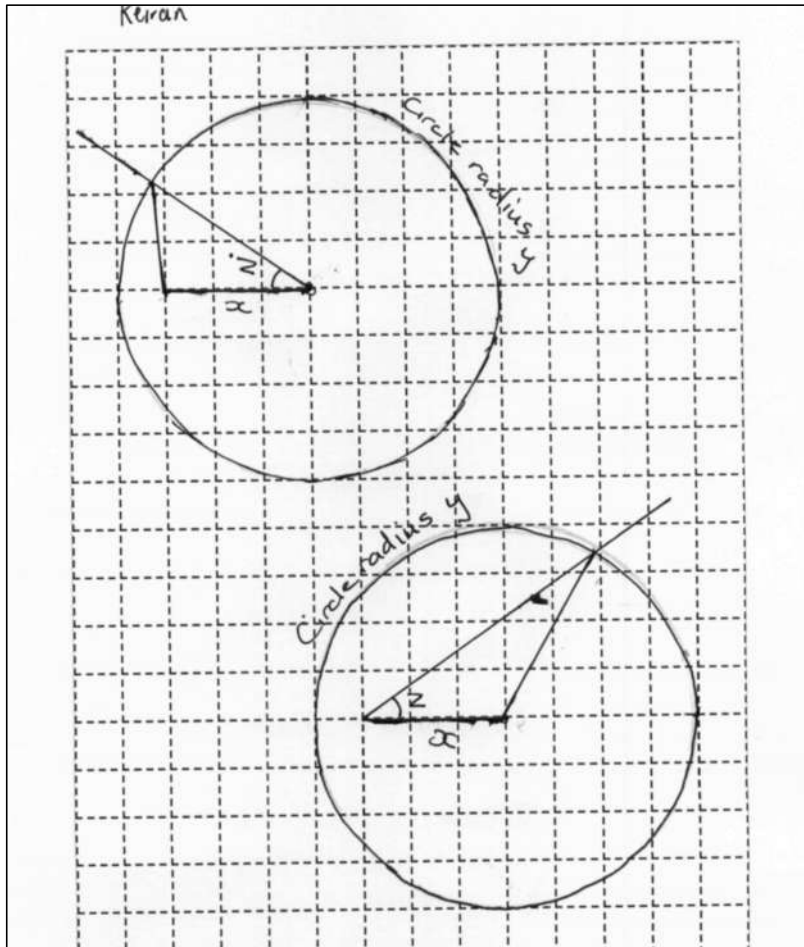
Explain Jorge's reasoning.

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Explain how Jorge could improve his proof.

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Kieran says the triangles need not be congruent.



Do you agree with Kieran?

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Explain what Kieran's diagrams show.

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Explain how Kieran could improve his reasoning.

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