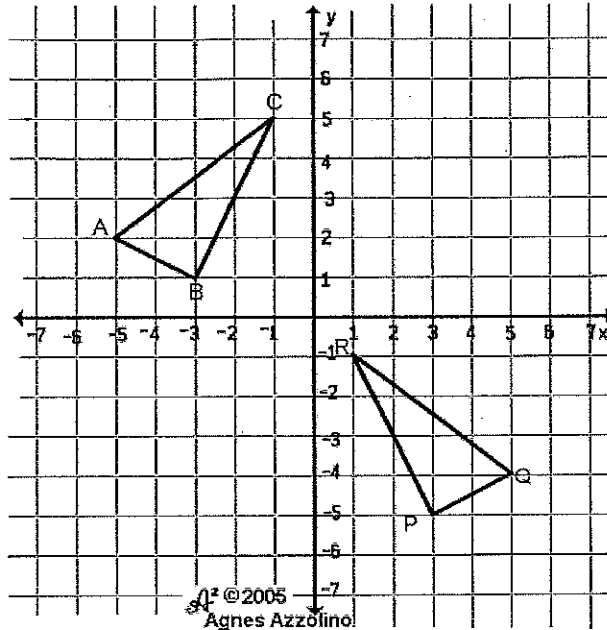


Congruent Triangle

Student
A

Antonia and Brittany were challenged by their teacher to describe how they know that triangles ABC and QPR shown in the coordinate plane are congruent.



Brittany says she can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 8 units to the right and then sliding the triangle 5 units down.

Antonio says he can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 6 units down and then reflecting the triangle about the y-axis.

Which student is correct?

Answer Antonio is right

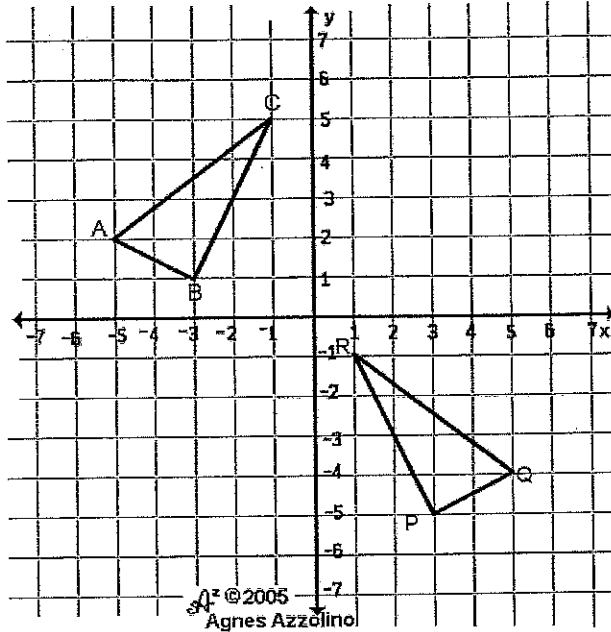
Explain the error the incorrect student made.

Brittany was correct about the triangle being in the lower right quadrant, but the triangle still won't be similar to $\triangle PQR$.

Congruent Triangle

Student B

Antonia and Brittany were challenged by their teacher to describe how they know that triangles ABC and QPR shown in the coordinate plane are congruent.



Brittany says she can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 8 units to the right and then sliding the triangle 5 units down.

Antonio says he can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 6 units down and then reflecting the triangle about the y-axis.

Which student is correct?

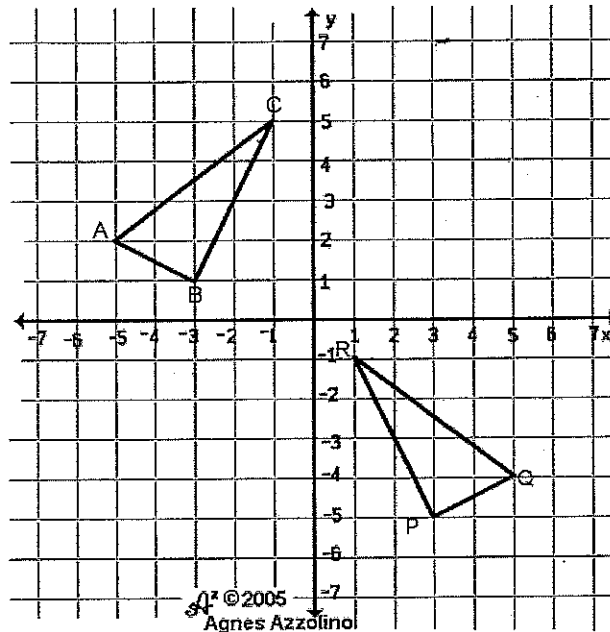
Answer Antonio

Explain the error the incorrect student made.

Hes right because if you do what Antonio says, it will look like a mirrored image.

Congruent Triangle

Antonia and Brittany were challenged by their teacher to describe how they know that triangles ABC and QPR shown in the coordinate plane are congruent.



Brittany says she can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 8 units to the right and then sliding the triangle 5 units down.

Antonio says he can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 6 units down and then reflecting the triangle about the y-axis.

Which student is correct?

Answer Antonio is correct

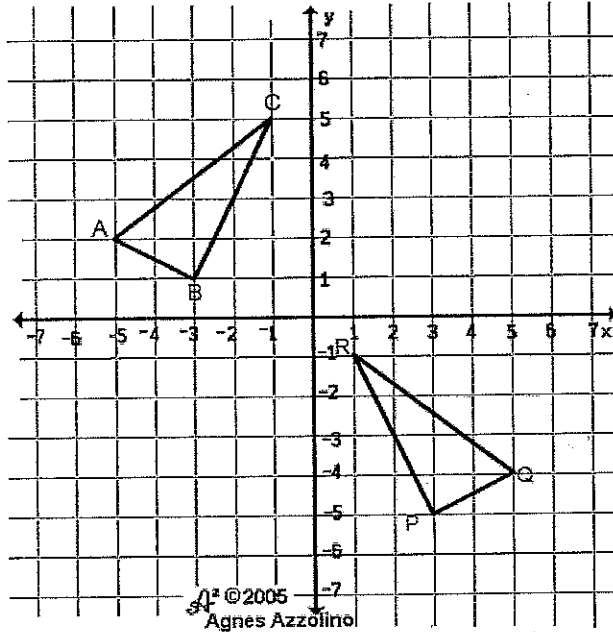
Explain the error the incorrect student made.

The error that Brittany made was that she had moved over too much and she moved in the wrong direction. Brittany's triangle wasn't in the same position as the other triangle like Antonio's was.

Student
D

Congruent Triangle

Antonia and Brittany were challenged by their teacher to describe how they know that triangles ABC and QPR shown in the coordinate plane are congruent.



Brittany says she can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 8 units to the right and then sliding the triangle 5 units down.

Antonio says he can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 5 units down and then reflecting the triangle about the y-axis.

Which student is correct?

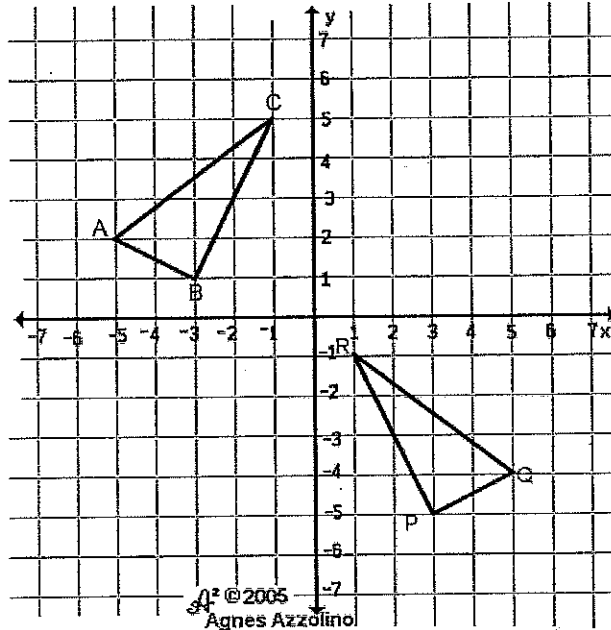
Answer Antonio

Explain the error the incorrect student made.

I think this cause Brittany moved the triangle wrong she say its congruent. C doesnt match with P or Q. B doesnt match with P. A doesnt match with P or Q either.

Congruent Triangle

Antonia and Brittany were challenged by their teacher to describe how they know that triangles ABC and QPR shown in the coordinate plane are congruent.



Brittany says she can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 8 units to the right and then sliding the triangle 5 units down.

Antonio says he can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 6 units down and then reflecting the triangle about the y-axis.

Which student is correct?

Answer Antonio

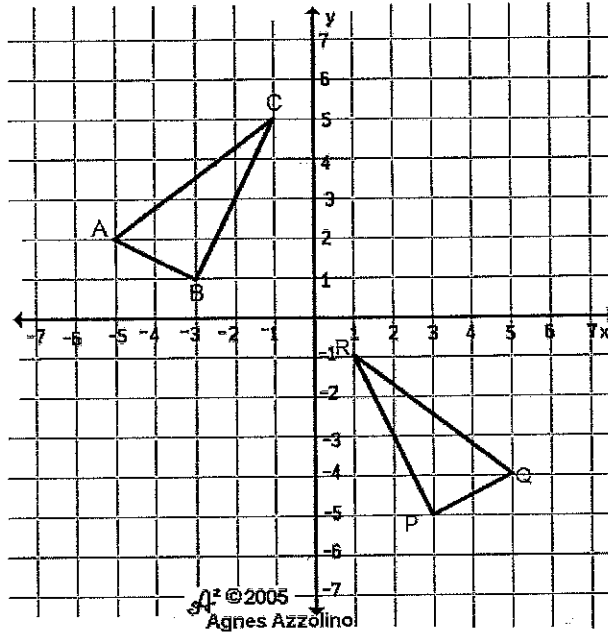
Explain the error the incorrect student made.

Brittany just forgot to turn it to make it match up on top of the other one at the end step. She only did 2 steps and forgot 1 step.

Student F

Congruent Triangle

Antonia and Brittany were challenged by their teacher to describe how they know that triangles ABC and QPR shown in the coordinate plane are congruent.



Brittany says she can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 8 units to the right and then sliding the triangle 5 units down.

Antonio says he can prove that $\triangle ABC$ is congruent to $\triangle QPR$ by sliding the triangle 6 units down and then reflecting the triangle about the y-axis.

Which student is correct?

Answer Antonio

Explain the error the incorrect student made.

Brittany

This is wrong

Antonio

This is right

← it's the opposite of what it should be

it looks reflected exactly the same shape.