

Explore Triangle Congruence Worksheets (ASA)

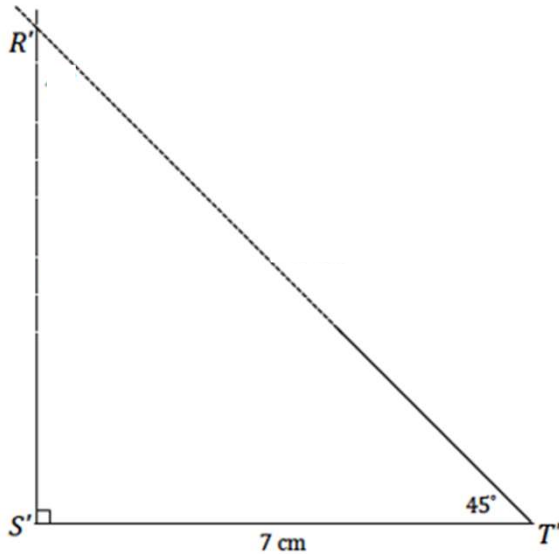
A triangle RST has angle measures $\angle S = 90^\circ$ and $\angle T = 45^\circ$ and included side $ST = 7 \text{ cm}$. Draw another $\triangle R'S'T'$ under the same condition.

Did the condition of Angle-Side-Angle ASA determine a unique triangle?

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The condition on $\triangle R'S'T'$ is the two angles and included side condition. All of the triangles are identical; the condition determined a unique triangle. After drawing the included side length, I used the protractor to draw the provided angle measurements at either endpoint of the included side $\overline{S'T'}$. The intersection of the sides of the angle is the third vertex of the triangle, R' . There is no other way to draw this triangle; therefore, the condition determines a unique triangle.

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