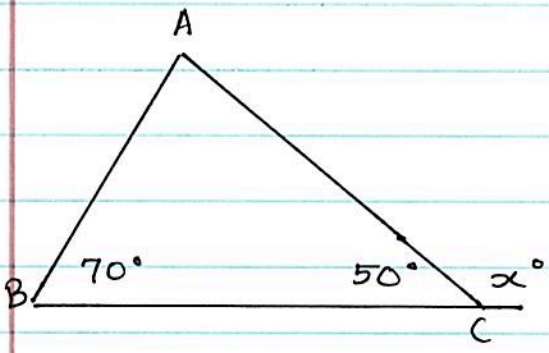
Practice Problem # 1

Solve for x:



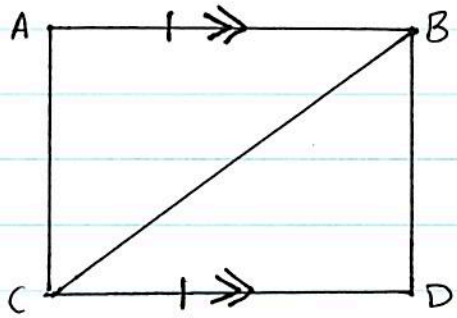
Answer ⇒ 130

How to do it

We now that the sum of the interior ∠'s of a triangle must equal 180°, so by subtracting (70+50) from 180, we are left with 60. We also know that the measure of the exterior ∠ is the sum of the two remote interior ∠'s. In this case that would be 70° and 60°. SO the exterior angle would be 70°+60° = 130°, therefore x would be 130.

Practice Problem #2

Determine which way can you prove these △'s congruent.



Answer ⇒ SAS

How to do it

We know that $\overline{AB}$ is parallel to $\overline{CD}$ and that they are both congruent to each other. We also know that the △'s share a side of CB and that $\overline{CB} \cong \overline{CB}$ because of the reflexive property. Lastly, since $\overline{AB}$ and $\overline{CD}$ are parallel, we know that the alternate interior angles will be ≅. So $\angle ABC \cong \angle BCD$ which gives us 2 side and the included angle which is the SAS of ≅.