

Answer 101.

$$AB = DC$$

or $\text{arc } AB = \text{arc } DC$

or $\text{arc } AB - \text{arc } AC = \text{arc } DC - \text{arc } AC$

or $\text{arc } DA = \text{arc } CB$

or $DA = CB$

In $\triangle DEA$ and $\triangle BEC$

$\angle EDA = \angle EBC$ (angles in same segment)

$DA = CB$ (Proved)

$\angle EAD = \angle ECB$ (angles in same segment)

$\triangle DEA \cong \triangle BEC$

$ED = EB$ (C.P.C.T.)

$EA = EC$ (C.P.C.T.)



