## Triangle Congruence Proofs

Complete the following proofs. If marked with a star* complete the proof as a paragraph proof.
19. Given: $\overline{\mathrm{AB}} \cong \overline{\mathrm{DE}}, \overline{\mathrm{BC}} \cong \overline{\mathrm{EF}}$, and $\angle \mathrm{B} \cong \angle \mathrm{E}$

20. Given: $\overline{\mathrm{PQ}} \cong \overline{\mathrm{TU}}, \angle \mathrm{P} \cong \angle \mathrm{T}$, and $\angle \mathrm{Q} \cong \angle \mathrm{U}$分

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Complete the following proofs. If marked with a star* complete the proof as a paragraph proof.
25. Given: $\overline{\mathrm{AB}} \cong \overline{\mathrm{CD}}, \angle \mathrm{ABD} \cong \angle \mathrm{CDB}$


Prove: $\triangle \mathrm{ABD} \cong \triangle C D B$

$$
{ }^{B} \triangle A B O \cong \triangle C D B \mid S A S
$$

26. Given: $\overline{\mathrm{PR}} \cong \overline{\mathrm{TR}}, \angle \mathrm{P} \cong \angle \mathrm{T}$


It is given that $\overline{P R} \cong \overline{\cong R}$ and $\angle P \cong \angle T$.
$\angle P R Q \cong \angle T R S$ by vertical angles Theorem,
Thus $\triangle P R Q \cong \triangle T R S$ by $A S A$
27. Given: $\overline{\mathrm{LM}} \cong \overline{\mathrm{JM}}$


Prove: $\Delta \mathrm{LKM} \cong \Delta \mathrm{JKM}$
*
29.

Given: $\overline{\mathrm{PS}} \cong \overline{\mathrm{QR}}, \overline{\mathrm{PQ}} \cong \overline{\mathrm{SR}}$


Prove: $\triangle P R S \cong \triangle R P Q$
28. Given: $\overline{\mathrm{AB}} \cong \overline{\mathrm{ED}}, \angle \mathrm{A} \cong \angle \mathrm{D}$


Prove: $\triangle \mathrm{ABC} \cong \triangle \mathrm{DCE}$

30. Given: $\overline{J N}$ Bisects $\overline{M L}, \angle \mathrm{M} \cong \angle \mathrm{L}$


