Triangle Congruence Proofs

Complete the following proofs. If marked with a star* complete the proof as a paragraph proof.

*

19. Given: $\overline{AB} \cong \overline{DE}$, $\overline{BC} \cong \overline{EF}$, and $\angle B \cong \angle E$

B



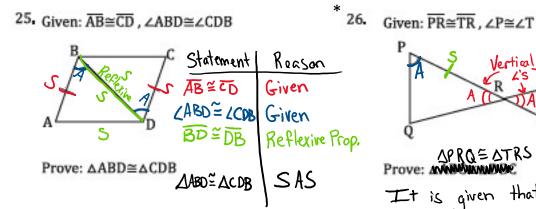
20. Given: $\overline{PQ} \cong \overline{TU}$, $\angle P \cong \angle T$, and $\angle Q \cong \angle U$

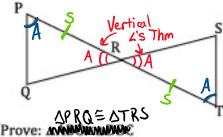




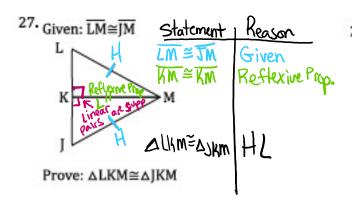
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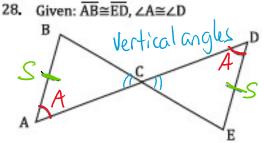
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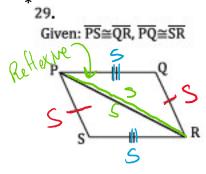
It is given that PRETR and CPELT. ZPRO = ZTRS by vertical angles Theorem. Thus APRQ = ATRS by ASA





Prove: △ABC≅△DCE Reason Statement AB & DF Given LA=4D

Vert. L's Thm. LBCA = LECD DABC=DDEC /



30. Given: JN Bisects ML, ∠M≅∠L

Statement Keason IN bisects (5) ven 2M2L Prove: △MJK≅△LNK Dof. of= Z JKM= INKL Voct. 25 Thm

Prove: △PRS≅△RPQ It is given that PS = RQ and PQ=Rs. By the reflexive property PR = RP. Thus, DPRS = DRPQ

MJK=ALNK |