

Lesson 4.2

Homework Answers

Pg 189 - #1-4, 7-30, 33, 36, 38, 41, 44-47

1) SSS	23) $\triangle K LJ \cong \triangle M ON$ by SSS
2) Cannot be proved \cong	24) Not poss; need $\angle H \cong \angle P$ or $\overline{DY} \cong \overline{TK}$
3) SAS	25) $\triangle JEF \cong \triangle SVF$ or $\triangle JEF \cong \triangle SFV$, by SSS
4) SSS	26) $\triangle BRT \cong \triangle BRS$ by SSS
7) a) Given b) Reflexive c) $\triangle JKM$ d) $\triangle LMK$	27) $\triangle PQR \cong \triangle NMO$ by SAS
8) \overline{WV} , \overline{VU}	28) No; even tho \angle 's \cong , sides may not
9) $\angle W$	29) No; need $\angle H \cong \angle K$ or $\overline{GI} \cong \overline{JL}$
10) $\angle U$, $\angle V$	30) Yes; SAS
11) \overline{WU}	33) a) Vert. \angle 's are \cong b) Given c) Defn. of midpoint d) Given e) Defn. of midpoint f) SAS
12) $\angle X$	36) $\angle ISP \cong \angle PSO$; $\triangle ISP \cong \triangle OSP$; SAS
13) \overline{XZ} , \overline{YZ}	38) Yes; $\triangle ADB \cong \triangle CBD$ by SAS; $\angle ADB \cong \angle DBC$ if \parallel lines, then alt. int. \angle 's are \cong
14) $\overline{LG} \cong \overline{MN}$	41) $\overline{FG} \parallel \overline{KL}$ (Given) $\angle GFK \cong \angle FKL$ (if \parallel lines, then alt. int. \angle 's are \cong) $\overline{FG} \cong \overline{KL}$ (Given) $\overline{FK} \cong \overline{FK}$ (Reflexive POC) $\triangle FGK \cong \triangle KLF$ (SAS)
15) $\angle T \cong \angle V$ or $\overline{RS} \cong \overline{WU}$	
16) $\overline{DC} \cong \overline{CB}$	
17) additional info not needed	
18) Yes; $\triangle ACB \cong \triangle EFD$ by SAS	
19) Yes; $\triangle PVQ \cong \triangle STR$ by SSS	
20) No; need $\angle YVW \cong \angle ZVW$ or $\overline{YV} \cong \overline{ZV}$	
21) Yes; $\triangle NMO \cong \triangle LOM$ by SAS	
22) $\triangle ANG \cong \triangle RWT$ by SAS	

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<p>44) $\overline{AM} \cong \overline{MB}$ because M is midpoint of \overline{AB} . $\angle B \cong \angle AMC$ because all rt. \angle's are \cong $\overline{CM} \cong \overline{DB}$ is given $\triangle AMC \cong \triangle MBD$ by SAS</p> <p>45) D</p> <p>46) G</p> <p>47) C</p>	
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