

Lesson 4.4

Homework Answers

Pg 204 - #1-4, 7-13, 15, 19, 21, 28-36

Pg 209 - #1-9

<p><u>Pg 204</u></p> <p>1) $\angle PSQ \cong \angle SPR$; $\overline{SQ} \cong \overline{RP}$; $\overline{PQ} \cong \overline{SR}$</p> <p>2) AAS; $\triangle ABC \cong \triangle EBD$; $\angle A \cong \angle E$; $\overline{CB} \cong \overline{DB}$; $\overline{DE} \cong \overline{CA}$ by CPCTC</p> <p>3) SAS; $\triangle KLJ \cong \triangle OMN$; $\angle K \cong \angle O$; $\angle J \cong \angle N$; $\overline{KJ} \cong \overline{ON}$ by CPCTC</p> <p>4) SSS; $\triangle HUG \cong \triangle BUG$; $\angle H \cong \angle B$; $\angle HUG \cong \angle BUG$; $\angle UGH \cong \angle UGB$ by CPCTC</p> <p>7) $\triangle ABD \cong \triangle CBD$ by ASA: $\overline{BD} \cong \overline{BD}$ by Reflexive POC; $\overline{AB} \cong \overline{CB}$ by CPCTC</p> <p>8) $\triangle MOE \cong \triangle REO$ by SSS: $\overline{OE} \cong \overline{OE}$ by Reflexive POC; $\angle M \cong \angle R$ by CPCTC</p> <p>9) $\triangle SPT \cong \triangle OPT$ by SAS: $\overline{TP} \cong \overline{TP}$ by Reflexive POC; $\angle S \cong \angle O$ by CPCTC</p> <p>10) $\triangle PNK \cong \triangle MNL$ by SAS: $\angle KNP \cong \angle LNM$ vert. \angle's are \cong $\overline{KP} \cong \overline{LM}$ by CPCTC</p> <p>11) $\triangle CYT \cong \triangle RYP$ by AAS: $\overline{CT} \cong \overline{RP}$ by CPCTC</p> <p>12) $\triangle ATM \cong \triangle RMT$ by SAS: $\angle ATM \cong \angle RMT$ alt.int. \angle's are \cong $\angle AMT \cong \angle RTM$ by CPCTC</p>	<p>13) Yes; $\triangle ABD \cong \triangle CBD$ by SSS: so $\angle A \cong \angle C$ by CPCTC</p> <p>15) $\overline{KL} \cong \overline{KL}$ by Reflexive POC so the \triangle's are \cong by SAS</p> <p>19) a) Given b) \perp lines form right \angle's c) Right \angle's are \cong d) Given e) Defn. of segment bisector f) Reflexive POC g) SAS h) CPCTC</p> <p>21) Prove $\triangle ABE \cong \triangle CDF$ by SAS since $\overline{AE} \cong \overline{FC}$ by subtraction.</p> <p>28) C</p> <p>29) C</p> <p>30) D</p> <p>31) B</p> <p>32) C</p> <p>33) a) $\triangle KBV \cong \triangle KBT$; yes; SAS b) CPCTC</p> <p>34) ASA</p> <p>35) AAS</p> <p>36) $x = 10 + (180 - x)$ $x = 95$ 95 and 85</p>
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Pg 204 - #1-4, 7-13, 15, 19, 21, 28-36

Pg 209 - #1-9

Pg 209

1) (-3, -7)

2) (5, 2)

3) no solution

4) $\left(\frac{3}{4}, -\frac{9}{2}\right)$

5) infinitely many solutions

6) no solution

7) infinitely many solutions

8) (8, 17)

9) $\left(\frac{3}{2}, -\frac{1}{2}\right)$