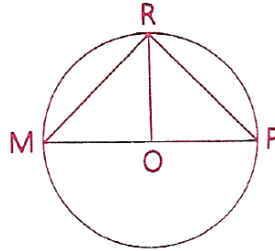


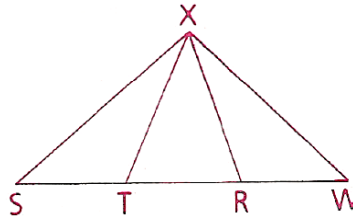
8.2.D1 ~ CPCTC & Circles

PROOFS MUST BE DONE ON PROOF PAPER.

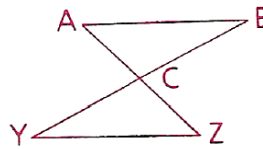
1. Given: $\odot O$
 $\overline{RO} \perp \overline{MP}$
 Prove: $\overline{MR} \cong \overline{PR}$



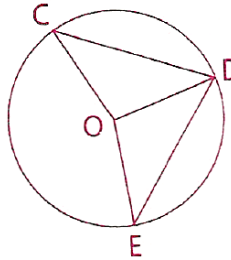
2. Given: T and R trisect \overline{SW}
 $\overline{XS} \cong \overline{XW}$
 $\angle S \cong \angle W$
 Prove: $\overline{XT} \cong \overline{XR}$



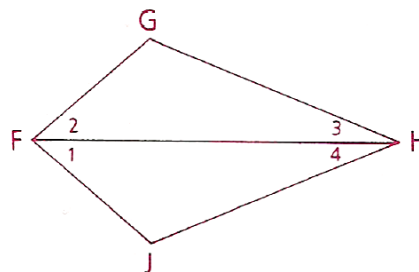
3. Given: $\angle B \cong \angle Y$
 C is the midpoint of \overline{BY}
 Prove: $\overline{AB} \cong \overline{ZY}$



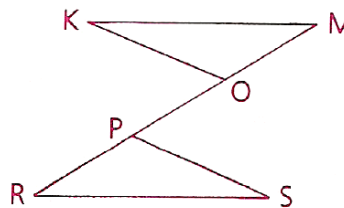
4. Given: $\odot O$
 $\overline{CD} \cong \overline{ED}$
 Prove: $\angle COD \cong \angle EOD$



5. Given: \overline{FH} bisects $\angle GFJ$ and $\angle GHJ$
 Prove: $\overline{FG} \cong \overline{FJ}$

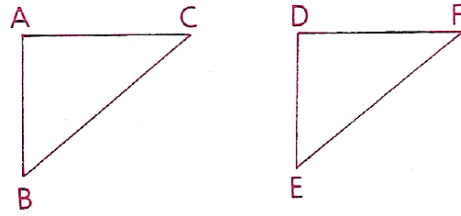


6. Given: $\angle M \cong \angle R$
 $\angle RPS \cong \angle MOK$
 $\overline{MP} \cong \overline{RO}$
 Prove: $\overline{KM} \cong \overline{SR}$

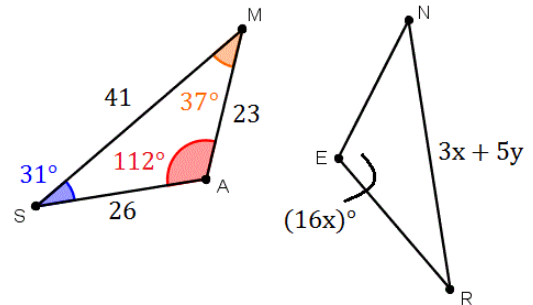


PROBLEMS 7 - 10 ARE NOT PROOFS.

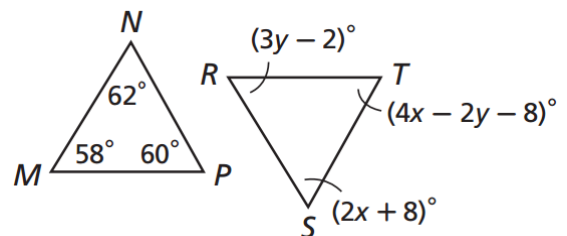
7. $\triangle ABC \cong \triangle DEF$,
 $m\angle A = 90$, $m\angle B = 50$, $m\angle C = 40$,
 $m\angle E = 12x + 30$, $m\angle F = \frac{1}{2}y - 10$, $m\angle D = \sqrt{z}$
 Solve for x , y , and z .



8. $\triangle SAM \cong \triangle REN$
 Solve for x and y



9. $\triangle MNP \cong \triangle RST$
 Solve for x and y



10. $\triangle MNP \cong \triangle QNP$, $y = 3$
 Show and explain how the triangles are congruent.

