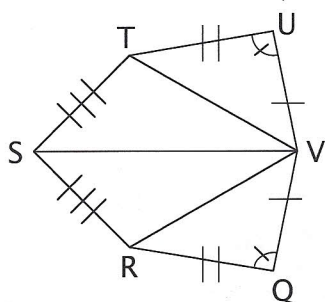


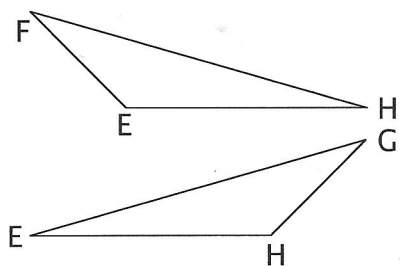
2.

Statements	Reasons
$\overline{TU} \cong \overline{RQ}$	Given
$\angle TUV \cong \angle RQV$	Given
$\overline{UV} \cong \overline{QV}$	Given
$\triangle TUV \cong \triangle RQV$	SAS
$\overline{TV} \cong \overline{RV}$	CPCTRC
$\overline{ST} \cong \overline{SR}$	Given
$\overline{SV} \cong \overline{SV}$	Reflexive
$\triangle TSV \cong \triangle RSV$	SSS
$\angle TSV \cong \angle RSV$	CPCTRC



3.

Statements	Reasons
$\overline{FE} \cong \overline{GH}$	Given
$\overline{FH} \cong \overline{GE}$	Given
$\overline{EH} \cong \overline{EH}$	Reflexive
$\triangle FEH \cong \triangle GHE$	SSS



Honors Lesson 26

1.

Statements	Reasons
$\overline{AB} \cong \overline{AC}$	Given
$\angle ARB \cong \angle AQC$	Perpendicular
$\angle BAR \cong \angle CAQ$	Reflexive
$\overline{AR} \cong \overline{AQ}$	AAS
$\overline{CR} \cong \overline{BR}$	CPCTRC

2.

Statements	Reasons
$\overline{XB} \cong \overline{YB}$	Definition of bisector
$\angle XBA \cong \angle YBA$	Definition of Perpendicular
$\overline{BA} \cong \overline{BA}$	Reflexive
$\angle XBA \cong \angle YBA$	SAS
$\overline{XA} \cong \overline{YA}$	CPCTRC

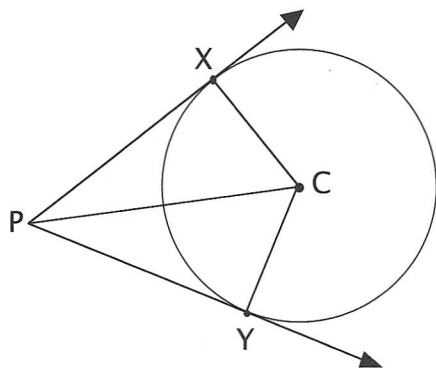
3.

Statements	Reasons
$\overline{EF} \cong \overline{GF}$	From proof above
$\overline{EX} \cong \overline{GX}$	Definition of Bisector
$\overline{FX} \cong \overline{FX}$	Reflexive
$\angle EXH \cong \angle GXH$	SSS
$\angle EXH \cong \angle GXH$	Definition of Perpendicular
$\overline{HX} \cong \overline{HX}$	Reflexive
$\angle EXH \cong \angle GXH$	SAS
$\overline{EH} \cong \overline{GH}$	CPCTRC

Honors Lesson 27

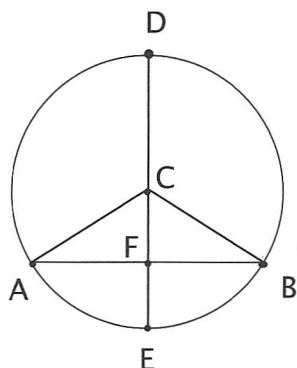
1.

Statements	Reasons
$\overline{XC} \cong \overline{YC}$	Radius of a circle
$\angle PYC \cong \angle PXC$	A tangent of a circle is perpendicular to the radius at that point.
$\overline{PC} \cong \overline{PC}$	Reflexive
$\triangle PYC \cong \triangle PXC$	HL
$\overline{PX} \cong \overline{PY}$	CPCTRC



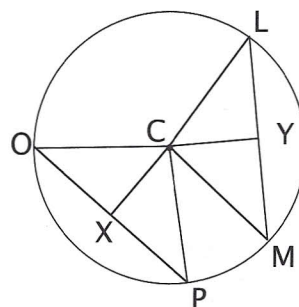
2.

Statements	Reasons
$\overline{DE} \perp \overline{AB}$	Given
$\overline{AC} \cong \overline{BC}$	Radius of a circle
$\overline{FC} \cong \overline{FC}$	Reflexive
$\angle FCA \cong \angle FCB$	HL
$\angle ACE \cong \angle BCE$	CPCTRC
$\widehat{AE} \cong \widehat{BE}$	Property of central angle



3.

Statements	Reasons
$\overline{OP} \cong \overline{LM}$	Given
$\overline{OC} \cong \overline{LC}$	Radius of a circle
$\overline{PC} \cong \overline{MC}$	Radius of a circle
$\triangle CPO \cong \triangle CML$	SSS
$\overline{OX} \cong \overline{LY}$	Definition of Bisector
$\triangle OCX \cong \triangle LCY$	HL
$\overline{XC} \cong \overline{YC}$	CPCTRC



Honors Lesson 28

- $67 = \frac{1}{2}X$
 $134^\circ = X$
 $50\frac{1}{2}Y$
 $100^\circ = Y$
 $180 - (50 + 67) = \frac{1}{2}Z$
 $63\frac{1}{2}Z$
 $126^\circ = Z$
- $B = 180 - 77 = 103^\circ$
 $A = 180 - 84 = 96^\circ$
 $C = 2 \times 77 = 154^\circ$
- $m\widehat{QR} = 2(63^\circ) = 126^\circ$
 $m\angle QCR = m\widehat{QR} = 126^\circ$
- $m\angle AEC = \frac{40^\circ + 30^\circ}{2} = \frac{70^\circ}{2} = 35^\circ$
 $m\angle BED = 35^\circ$
- $m\angle KPL = \frac{116^\circ - 36^\circ}{2} = \frac{80^\circ}{2} = 40^\circ$

Honors Lesson 29

1.

angle	tan
10°	.18
15°	.268
30°	.58
45°	1
60°	1.73