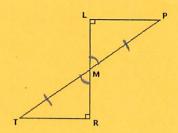
Geometry Review Sheet #6

Date Due: January 31, 2012

In the diagram below: $\overline{RL} \perp \overline{LP}$, $\overline{LR} \perp \overline{RT}$, and M is the midpoint of \overline{TP} . Which statement could be used to prove $\Delta TMR \cong \Delta PML$?

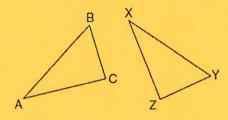


- (1) SAS ≅ SAS
- (3) HL ≅ HL
- (2) AAS ≅ AAS
- (4) SSS ≅ SSS

2. Two parallel lines cut by a transversal can create all the following types of angles *except*

- (1) Alternate interior angles
- (2) Alternate exterior angles
- (3) Corresponding angles
- (4) Complementary angles

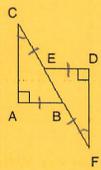
3. In the diagram below, $\triangle ABC \cong \triangle XYZ$.



Which two statements identify corresponding congruent parts for these triangles?

- (1) $\overline{AB} \cong \overline{XY}$ and $\angle C \cong \angle Y$
- (2) $\overline{AB} \cong \overline{YZ}$ and $\angle C \cong \angle X$
- (3) $\overline{BC} \cong \overline{XY}$ and $\angle A \cong \angle Y$
- $\overline{(4)}$ $\overline{BC} \cong \overline{YZ}$ and $\angle A \cong \angle X$

- 4. The complement of every acute angle must be
 - (1) an acute angle
 - (2) a right angle
 - (3) an obtuse angle
 - (4) a straight angle
- 5. In the accompanying diagram, $\overline{CA} \perp \overline{AB}$, $\overline{ED} \perp \overline{DF}$, $\overline{ED} \parallel \overline{AB}$, $\overline{CE} \cong \overline{BF}$, and, $\overline{AB} \cong \overline{ED}$.



Which statement would *not* be used to prove $\triangle ABC \cong \triangle DEF$?

- (1) SAS ≅ SAS
- (3) HL ≅ HL
- (2) AAS ≅ AAS
- (4) \$SS ≅ SSS

6. In triangle *ABC*, if altitude *AD* is drawn to side *BC*, which of the following must be true?

- (1) $\angle ADB \cong \angle ADC$
- (3) $\triangle ADB \cong \triangle ADC$
- (2) $\overline{BD} \cong \overline{DC}$
- (4) ∢B ≅ ∢C

7. In $\triangle ABC$, an exterior angle at *A* measures 40°. Which is the *longest* side of the triangle?

- (1) \overline{AB}
- (2) \overline{AC}
- $\overline{(3)}\overline{B}\overline{C}$

8 Statement Reasons 1) BD is med and 1) Given (2) D is midpt to AC (2) If Median then drawn to (3) Il midpt then 22 sag 3) A 0 = CD (4) If alt then I seq. I (5) If I then 2 = 90° is (6) Reflexive Prop BO LAC S (ADB = COB 6 BD = BD JABO = ACBO BA = BC 5) SAS 8) CPCTC 9 (-4,0) 10. Skew 11. X=8 13. If a △ is isos then 2 sides of a △ ore =

15	Statements	Reason
	And "	(D) Given
	2) 4 B = 4C	2) Angles opp = sides in A
		are =
(3 / DEB= LFGC	3) If + tkn 2 = 90° (3
,	Applications of a secretarion,	
(4) EG = EG	@ Reflexive Prop
- 87	(Q	
_4%	SBG-EGF CE-GE	(3) Sub Prop of Equality
	6) BE = CG	6 Segment Subtraction Postulate
(O regiment diblication products
	DABOE = ACFG	(2) ASA
	and the second s	7988
	8 BD = CF	(B) CPCTC
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