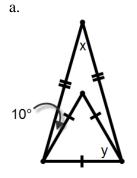
Geometry R – Mr. Bo Unit 5 – Review

Name:	
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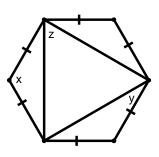
- 1. Suppose  $\overline{RT} \cong \overline{ND}$  and  $\langle R \cong \langle N \rangle$ . What additional information is needed to prove  $\Delta RTJ \cong \Delta NDF$  by ASA?
  - a.  $< F \cong < D$ b.  $< R \cong < N$ c.  $< J \cong < D$ d.  $< T \cong < D$
- 2. If  $< A \cong < D$  and  $< C \cong < F$ , which additional statement does NOT allow you to conclude that  $\triangle ABC \cong \triangle DEF$ ?

		A		П	
a. <i>I</i>	$\overline{BC} \cong \overline{EF}$	$\wedge$		Ň	<b>、</b>
b. <	$\langle B \simeq \langle E \rangle$				$\backslash$
c. $\overline{A}$	$\overline{AC} \cong \overline{DF}$		$\mathbf{i}$		
d. $\overline{A}$	$\overline{AB} \cong \overline{EF}$	в	c	E	F

- 3. Triangle JKL is congruent to triangle PQR and m < K = 3a + 18 and m < Q = 5a 12. Find the measure of < K and < Q
- 4. In  $\triangle ABC$ , if  $\overline{AB} \cong \overline{AC}$ , m < B = 3x + 15, m < C = 7x 5, find m < B and m < C.
- 5. Solve for the variables:

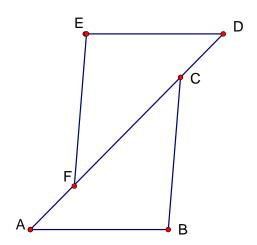


b.

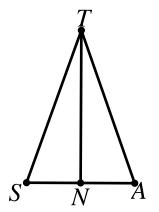


## **Proofs:**

6. Given:  $\overline{BC} / / \overline{EF}$  $\overline{BC} \cong \overline{EF}$  $\angle E \cong \angle B$ Prove:  $\overline{AF} \cong \overline{DC}$ 

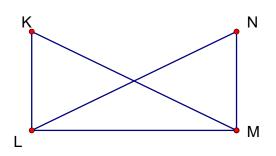


7. Given:  $\overline{TN}$  bisects  $\overline{SA}$  at N  $\angle S \cong \angle A$ Prove:  $\overline{TN} \perp \overline{SA}$ 



8. Given:  $\overline{KM} \cong \overline{NL}$ < KLM and < NML are right angles

Prove:  $< K \cong < N$ 



9. Given:  $\overline{AB} \cong \overline{CB}$ E is midpoint of  $\overline{AC}$ 

Prove:  $\triangle AED \cong \triangle CED$ 

