



Geometry

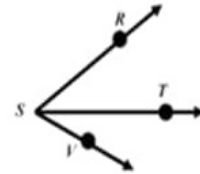
Module 1 – Exam

1. What is the measure of \overline{CB} ?



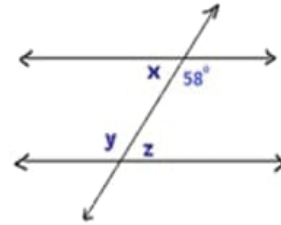
3. True or False: "All squares are similar."

2. If $\angle RST = 30^\circ$ and $\angle TSV = 15^\circ$, what is $\angle RSV$?



4. True or False: "All rectangles are similar."

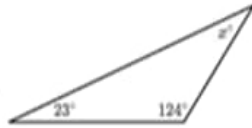
5. Two parallel lines are cut by a transversal. What is the measure of $\angle y$?



6. How many right angles are in a rectangle?

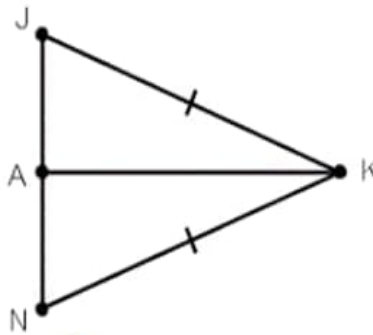
7. How many right angles are in a right triangle?

8. What is the measure of angle x ?

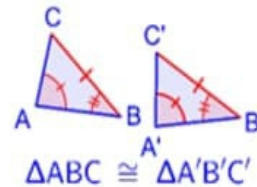


9. Is the following line inductive or deductive? "Obtuse triangles have exactly one obtuse angle."

10. Given: $\overline{KA} \perp \overline{JN}$ Prove: $\Delta KJA \cong \Delta KNA$

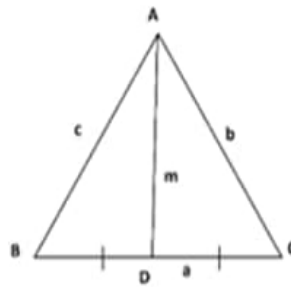


11. What is the principle by which you know that $\overline{CA} \cong \overline{C'A'}$?
(Don't do a proof, just name the principle.)



12. Given: \overline{AD} is both a median and an altitude.

Prove: $\Delta ADB \cong \Delta ADC$



Answers:

1. $\overline{CB} = 7$
2. $\angle RSV = 45^\circ$
3. **True**
4. **False**
5. $\angle y = 58^\circ$ (Alternate Interior Angles)
6. **4**
7. **1**
8. $\angle x = 33^\circ$
9. **Deductive**

10. **Proof: $\triangle KJA \cong \triangle KNA$**

1. $\overline{KA} \perp \overline{JN}$	Given
2. $\angle KAJ \cong \angle KAN$	Definition of Perpendicularity
3. $\overline{KA} \cong \overline{KA}$	Identity Property
4. $\triangle KJA \cong \triangle KNA$	SAS Postulate

11. **CPCTC**

12. . **Proof: $\triangle ADB \cong \triangle ADC$**

1. \overline{AD} is an altitude	Given
2. $\angle ADB \cong \angle ADC$	Definition of Perpendicularity
3. $\overline{AD} \cong \overline{AD}$	Identity Property
4. $\triangle ADB \cong \triangle ADC$	SAS Postulate