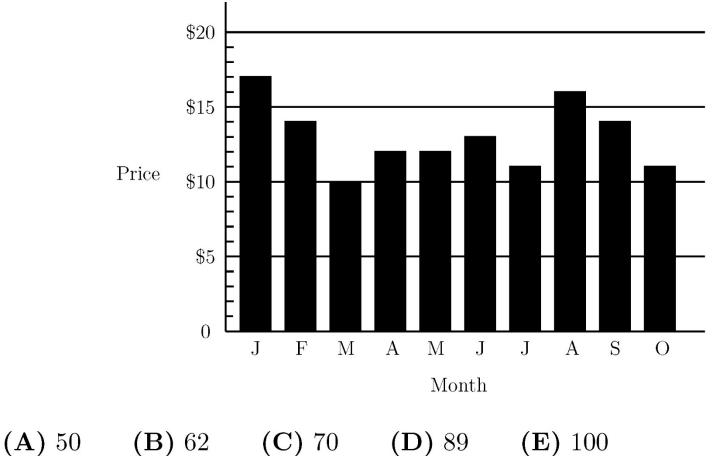
# TRIANGLE CONGRUENCE USING ASA, AAS & HL

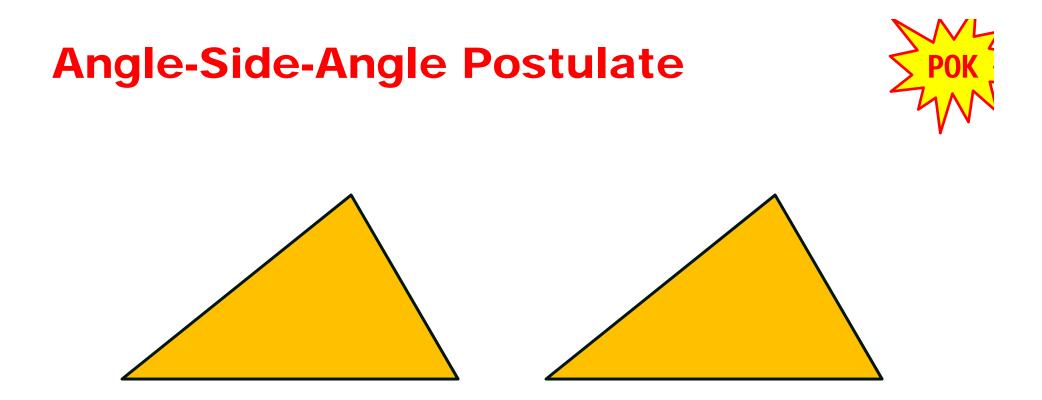
# ANC: 8 Nov. 18 in Class

2. If  $a * b = \frac{a \times b}{a+b}$  for a, b positive integers, then what is 5 \* 10?

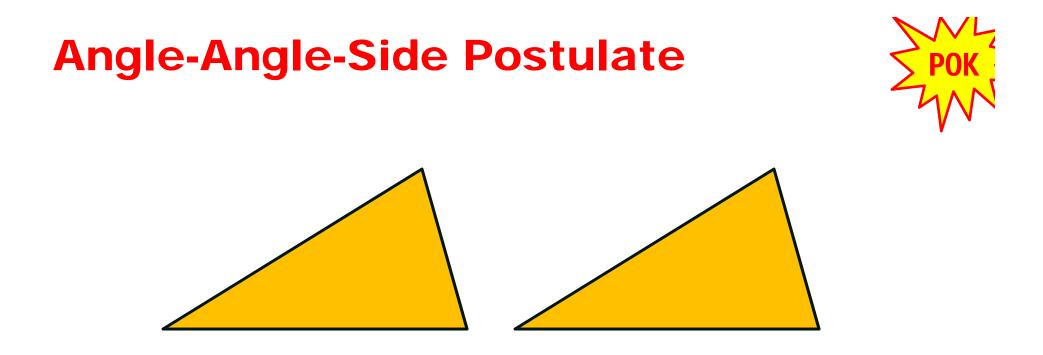
(A) 
$$\frac{3}{10}$$
 (B) 1 (C) 2 (D)  $\frac{10}{3}$  (E) 50

3. The graph shows the price of five gallons of gasoline during the first ten months of the year. By what percent is the highest price more than the lowest price?

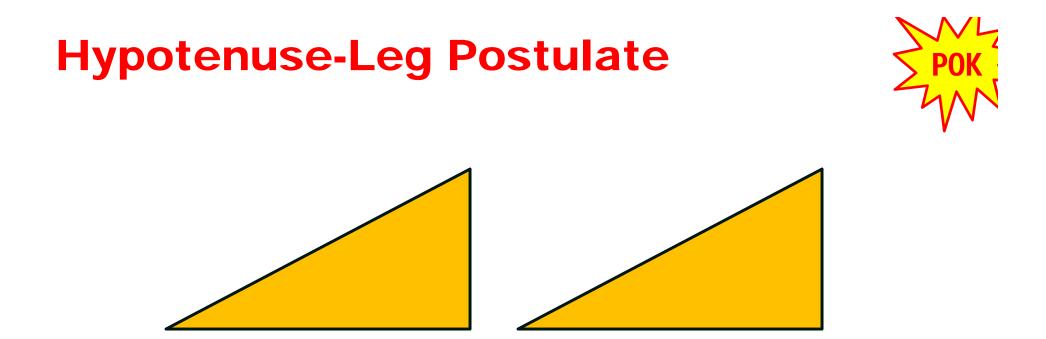




If \_\_\_\_\_\_ angles and the \_\_\_\_\_\_ side in one triangle are congruent to \_\_\_\_\_\_ angles and the \_\_\_\_\_\_ side in another triangle, then the two triangles are \_\_\_\_\_\_

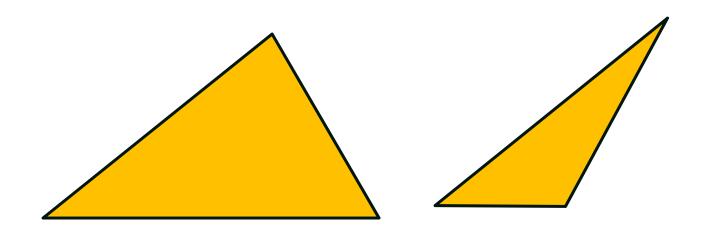


If \_\_\_\_\_ angles and the non-included side in one triangle are congruent to \_\_\_\_\_ angles and the \_\_\_\_\_ side in another triangle, then the two triangles are \_\_\_\_\_

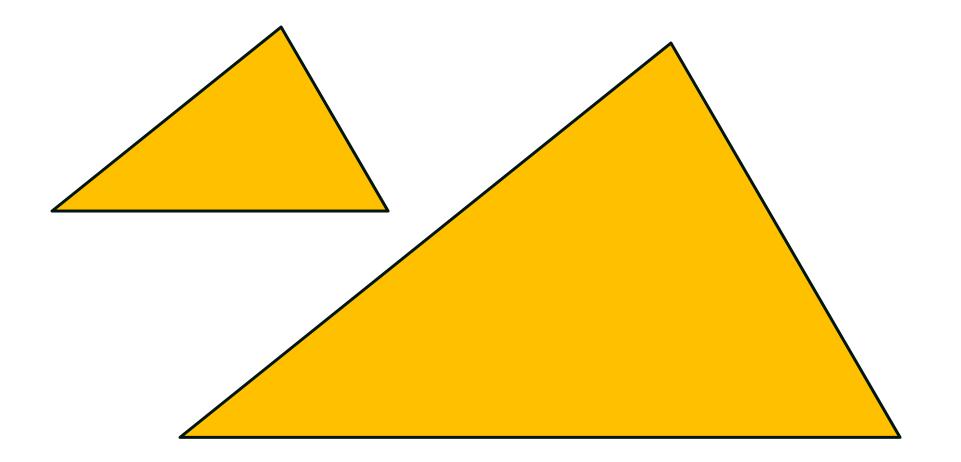


If the \_\_\_\_\_ and \_\_\_\_ in one right triangle are congruent to the \_\_\_\_\_ and \_\_\_\_ in another right triangle, then the two triangles are \_\_\_\_\_.

## Angle-Side-Side Postulate

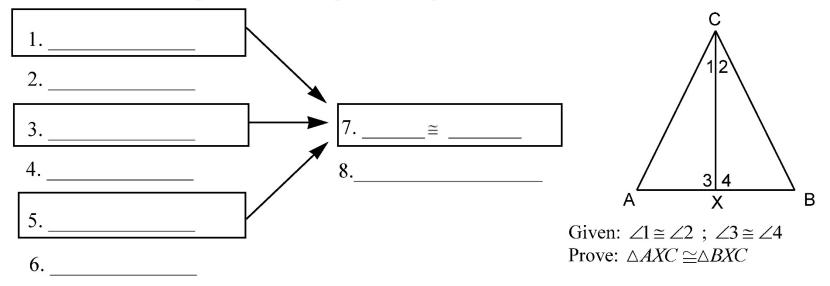


## Angle-Angle-Angle Postulate



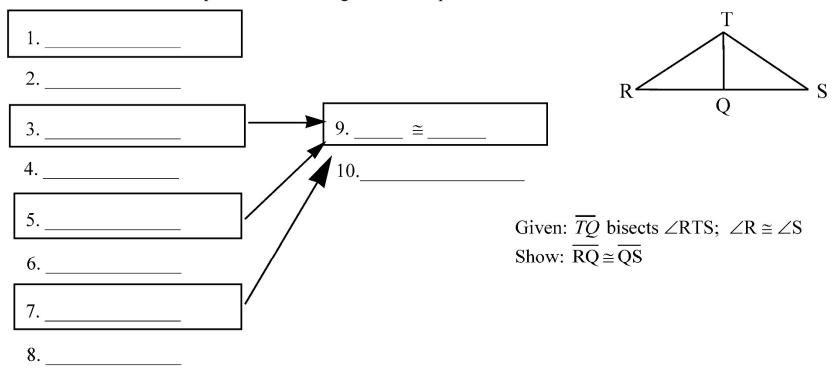
#### **Flow Chart Proofs**

Use the information to complete the following flow chart proof.



#### **Flow Chart Proofs**

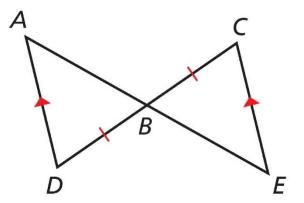
Use the information to complete the following flow chart proof.



Write a proof.

**Given**  $\overline{AD} \parallel \overline{EC}, \ \overline{BD} \cong \overline{BC}$ 

**Prove**  $\triangle ABD \cong \triangle EBC$ 

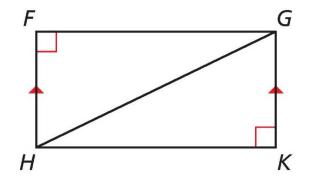


Statements	Reasons

Write a proof.

**Given**  $\overline{HF} \parallel \overline{GK}, \angle F$  and  $\angle K$  are right angles.

**Prove**  $\triangle HFG \cong \triangle GKH$ 

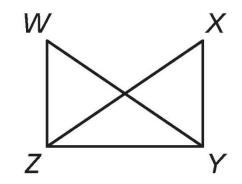


Statements	Reasons

Write a proof.

**Given**  $\overline{WY} \cong \overline{XZ}, \ \overline{WZ} \perp \overline{ZY}, \ \overline{XY} \perp \overline{ZY}$ 

**Prove**  $\triangle WYZ \cong \triangle XZY$ 



Statements	Reasons