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.



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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