## Warm Up

## ON HALF SHEET:

Write the formula that was used in the video for today.

## SECTION 3.8- THE HL POSTULATE

$$
\begin{aligned}
& \text { Proving } \triangle S \cong \\
& \hline A A S \\
& S A S \\
& \text { SSS } \\
& \text { ASA }
\end{aligned}
$$



## Why Do You Need To Know This?

- Let's say you need to prove triangles congruent - what postulates can you use? SSS, SAS, ASA or AAS
$\square$ But suppose there is not enough information for any of those!
- Now you're stuck right?
- .....WRONG!
- The Hypotenuse Leg Postulate is another method of proving triangles congruent ©

What is the HL Postulate?
H. Hy potenuse (longest side of a $r=\lambda$
$L$ - Leg (sile that int hyp potenuse)
$\Delta$ 's must be right $\Lambda^{\prime}$ s


## How and When to Use It

- The HL Postulate only works with right triangles.
- When used in a proof, you must first establish the two are right triangles.
- Then, you get the legs and hypotenuses congruent and you're done!


Sample Problem


