

## THINGS WERE GOING OVER



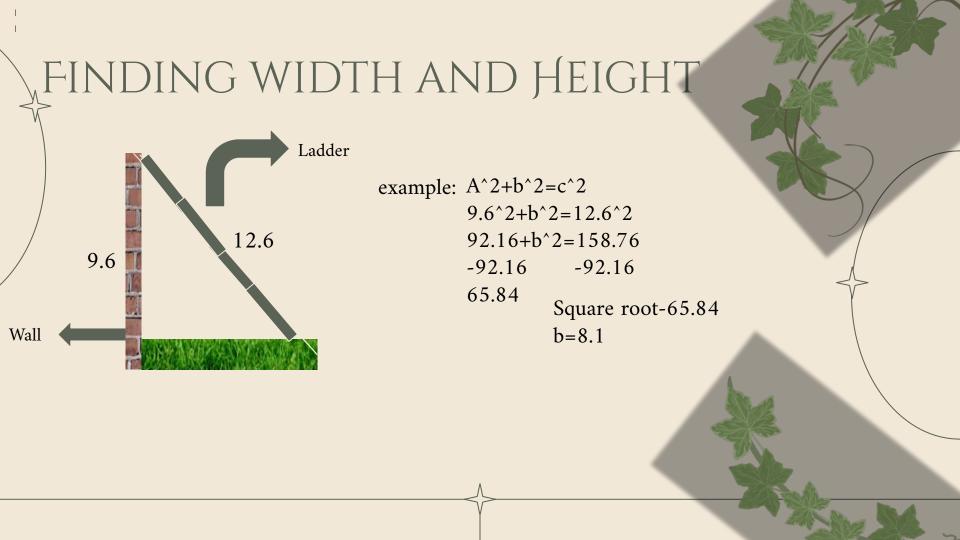
FIRE FIGHTING	Pythagorean theorem
FORENSIC SCIENCE	Basic Geometry

## FIRE FIGHTING

What is the pythagorean theorem? The pythagorean theorem is used to find a missing side length on a right triangle

What does the pythagorean theorem have to do with firefighting? The pythagorean theorem can help you find the right distance you need to angle the ladder correctly to get to an exact position to where you can benefit from rather than guessing

$$a^2 + b^2 = c^2$$



## HOW GEOMETRY IS USED IN FORENSIC SCIENCE

- Basic geometry is used to measure and proportion scientific evidence.
- Basic geometrical lines, planes, and points plotted can help scientists recreate the crime scene and take a good guess at what happened.
- Other mathematical calculations help scientists prove real facts about a crime scene.





 Using data collected on the crime, investigators are able to plug this data into an equation that can determine how far a suspect traveled to commit a crime, and how far they got since.

Trigonometry is also used to find Trajectories

 While in college you will be required to take these classes calculus, statistics, and laboratory measurements and techniques

## **FORMULAS**

