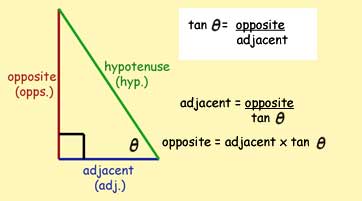
**Study Guide – Chapter 4 So Far… Geometry Ms. Liefland**

Slope Ratio = Rise / Run

You may need to rotate the triangle to make it look more like a slope triangle if you use “rise” and “run”.

Another Definition:

**Slope Ratio = Opposite side / Adjacent Side**



Tangent Equations

Tan (angle) = Slope Ratio

If you have the ANGLE and you use tan(angle) you are given the slope ratio.

If you have the SLOPE RATIO and you want to find the angle, you use INVERSE TANGENT.

Tan (45) = 1 because the slope ratio for a 45 degree angle is 1.

Inverse Tangent ( 1 ) = 45 Because 45 is the angle that has a Slope Ratio of 1.

To calculate Inverse Tan on your calculator use the “2nd” or “Shift” button before pressing “tan”.

Angles that are SMALLER than 45 degrees have a slope ratio LESS than 1.

Angles that are LARGER than 45 degrees have a slope ratio LARGER than 1.

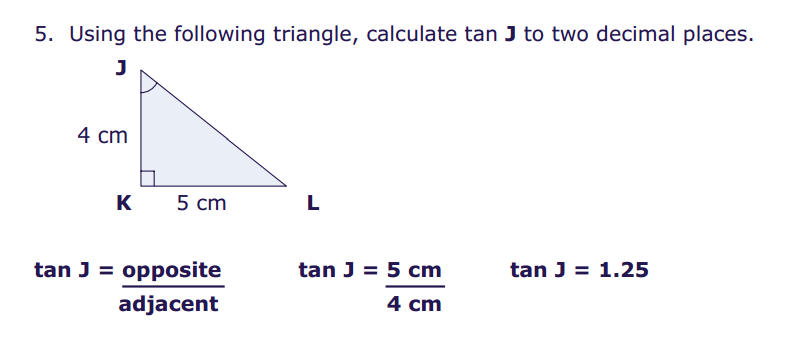
As angles approach 90 degrees, the slope angles approach infinity.

The slope ratio for a 0 degree angle is 0.

The slope ratio for a 90 degree angle is undefined (infinity).

The slope ratio is opp/adj, or rise/run and is also how much times larger the run is than the rise.

**FINDING AN ANGLE**



**FINDING A SIDE**

