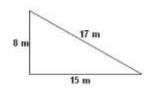
UNIT 5 – LESSON 1 Identifying Triangles and Trigonometric Ratios

Identifying Triangles

if : $c^2 = a^2 + b^2$, *then*: RIGHT *if* : $c^2 > a^2 + b^2$, *then*: OBTUSF *if* : $c^2 < a^2 + b^2$, *then*: ACUTF

Identify the triangles

Ex 1)



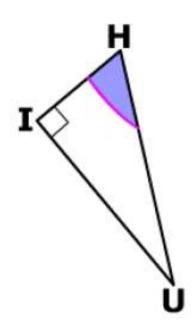
17² ?? 8² + 15²

289 ?? 64 + 225

289 = 289 RIGHT TRIANGLE

Identifying Opposite, Adjacent and Hypotenuse

Identify the sides that are opposite and adjacent to \angle IHU.



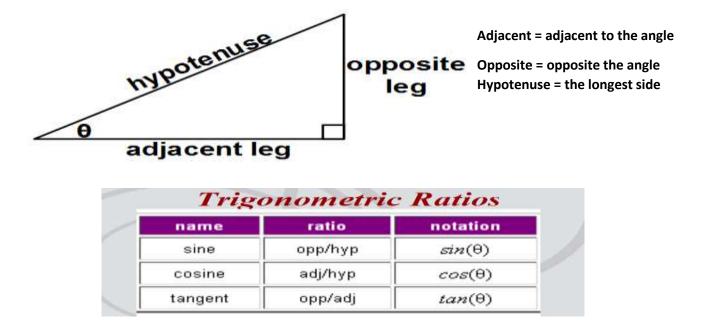
Identify the triangles Ex 2) 20, 21, 27 We should know that the HYPOTENUSE is the longest side of a triangle 27² ?? 20² + 21² 729 ?? 400 + 441 729 < 841 ACUTE TRIANGLE

Opposite Side:

Adjacent Side:

Trig. Ratio – the <u>ratio</u> of the measures of two sides of a <u>right</u> triangle.

Memory Trick for Trig. Ratios = = = = = <u>SOHCAHTOA</u>



Using the triangles find the requested values:

