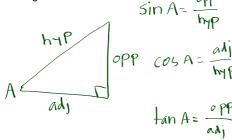
7-2 Solving for Angles

Objectives:

I can use inverse trig functions to find missing angles of right triangles.



To find measures of angles use inverse trig ratios

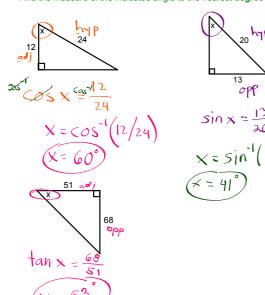
$$m \angle A = \sin^{-1} \left(\frac{opp}{hyp} \right)$$
$$m \angle A = \cos^{-1} \left(\frac{adj}{hyp} \right)$$
$$m \angle A = \tan^{-1} \left(\frac{opp}{adj} \right)$$

Make sure your calculator is in Degrees

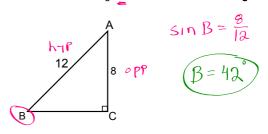
Feb 23-9:10 AM

Oct 20-4:58 PM

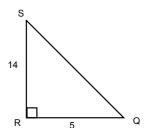
Find the measure of the indicated angle to the nearest **degree**



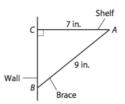
Find the measure of angle B. Round to the nearest degree.



Find the measure of angle \boldsymbol{S} . Round to the nearest $\boldsymbol{degree}.$



A shelf extends perpendicularly 7 in. from a wall. You want to place a 9-in. brace under the shelf, as shown. To the nearest degree, what angle will the brace make with the wall? What angle will the brace make with the shelf?



Feb 17-2:19 PM

Feb 23-9:57 AM