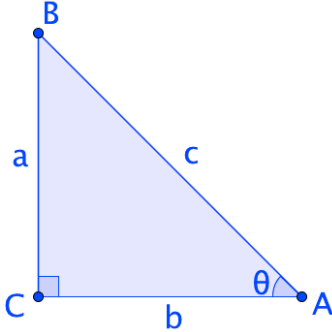


SM2 8.5A: Inverse Trig Ratios

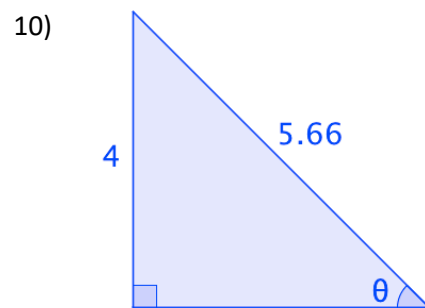
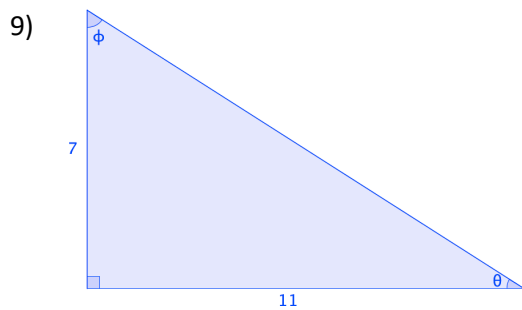
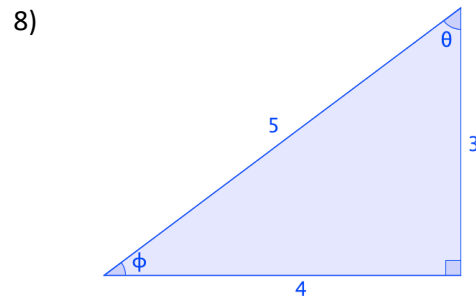
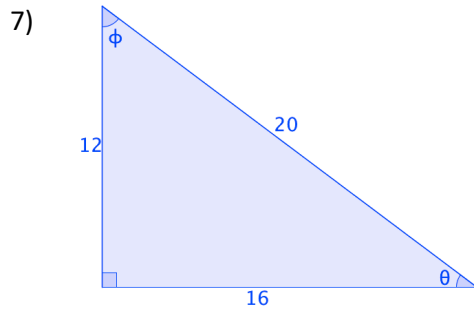
Equation	Inverse Equation
$\sin \theta = \frac{a}{c}$	$\theta = \arcsin\left(\frac{a}{c}\right) = \sin^{-1}\left(\frac{a}{c}\right)$
$\cos \theta = \frac{b}{c}$	$\theta = \arccos\left(\frac{b}{c}\right) = \cos^{-1}\left(\frac{b}{c}\right)$
$\tan \theta = \frac{a}{b}$	$\theta = \arctan\left(\frac{a}{b}\right) = \tan^{-1}\left(\frac{a}{b}\right)$

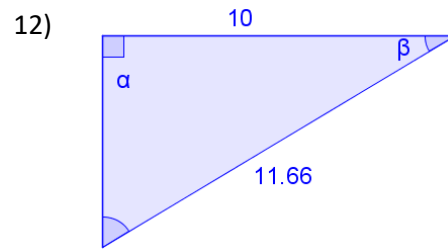
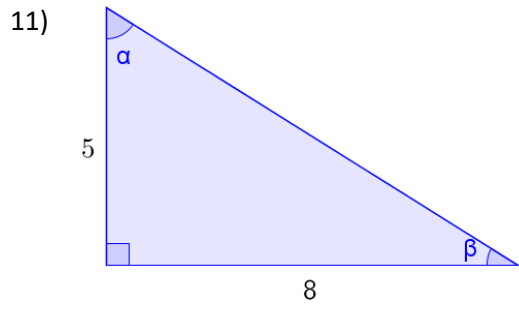


Problems: Use a calculator to find each value. Round to the nearest hundredth.

- | | | |
|---------------------|----------------------|----------------------|
| 1) $\sin^{-1}(0.5)$ | 2) $\cos^{-1}(0.86)$ | 3) $\tan^{-1}(6)$ |
| 4) $\tan^{-1}(1)$ | 5) $\sin^{-1}(0.75)$ | 6) $\cos^{-1}(0.33)$ |

Find the measure of the missing angles.





Find all the angle measures and side lengths for each triangle

