# Algebra 2

## 10-01 Right Triangle Trigonometry

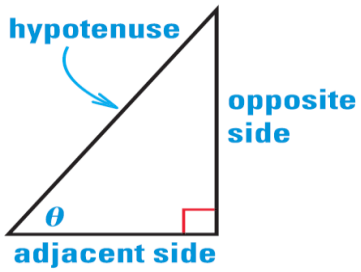
If you have a right triangle, there are six ratios of sides that are always constant

$\sin\theta =$ _____ $\quad \csc\theta =$ _____

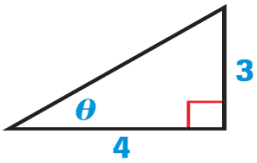
$\cos\theta =$ _____ $\quad \sec\theta =$ _____

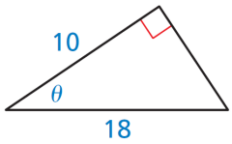
$\tan\theta =$ _____ $\quad \cot\theta =$ _____

SOH
CAH
TOA




Evaluate the six trigonometric functions of the angle $\theta$.

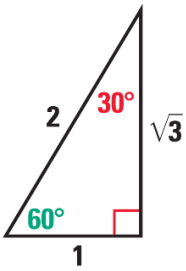


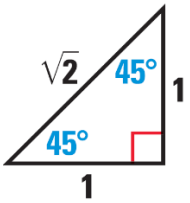

In a right triangle, $\theta$ is an acute angle and $\cos\theta = \frac{7}{10}$. What is $\sin\theta$?

### Special Right Triangles

30° - 60° - 90°

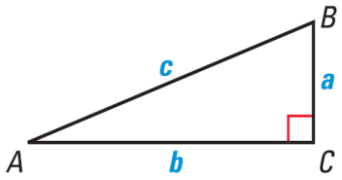



45° - 45° - 90°

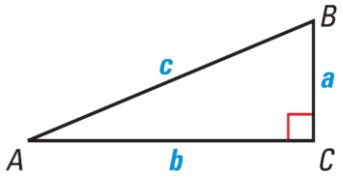


Use the diagram to solve the right triangle if…

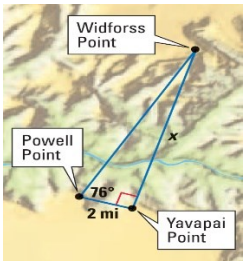
$B = 60°$, $a = 7$




$A = 32°$, $b = 10$




Find the distance between Powell Point and Widforss Point.




526 #1, 5, 9, 13, 15, 17, 21, 23, 25, 29, 33, 37, 39, 45, 49, 51, 53, 55, 58, 60 = 20