

**WARM-UP and NOTES for 6.2**

**Trigonometry Ratios:** sine, cosine, tangent, cotangent, secant, cosecant

$\sin =$

$\cos =$

$\tan =$

$\csc =$

$\sec =$

$\cot =$

examples:

given

find

a.  $\tan \theta = \frac{1}{5}$

$\cot \theta =$

b.  $\sin \theta = 1.5$

$\csc \theta =$

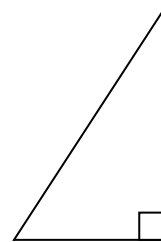
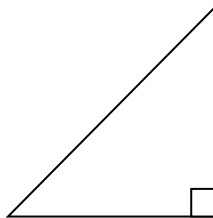
c.  $\sec \theta = \frac{\sqrt{3}}{6}$

$\cos \theta =$

**Special Triangles**

$30^\circ - 60^\circ - 90^\circ$

$45^\circ - 45^\circ - 90^\circ$



$\theta$ (degrees)	$\theta$ (radians)	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$
$30^\circ$							
$45^\circ$							
$60^\circ$							

Note:  $\sin 30^\circ = \cos$  \_\_\_\_\_

$\tan 30^\circ = \cot$  \_\_\_\_\_

$\sec 30^\circ = \csc$  \_\_\_\_\_

$\sin 45^\circ = \cos$  \_\_\_\_\_

$\tan 45^\circ = \cot$  \_\_\_\_\_

$\sec 45^\circ = \csc$  \_\_\_\_\_

$\sin 60^\circ = \cos$  \_\_\_\_\_

$\tan 60^\circ = \cot$  \_\_\_\_\_

$\sec 60^\circ = \csc$  \_\_\_\_\_