

Right Triangle Trigonometry

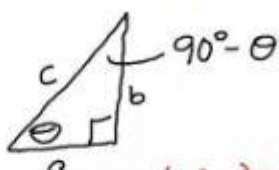
Sine =

Cose =

Tangent =

SOH CAH TOA

Cofunction Identities



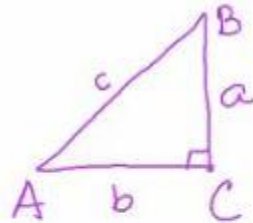
$\sin \theta = \frac{b}{c}$ $\csc \theta = \frac{c}{b}$
 $\cos \theta = \frac{a}{c}$ $\sec \theta = \frac{c}{a}$
 $\tan \theta = \frac{b}{a}$ $\cot \theta = \frac{a}{b}$

$\sin \theta = \cos(90^\circ - \theta)$
 $\cos \theta = \sin(90^\circ - \theta)$
 $\tan \theta = \cot(90^\circ - \theta)$

$\sin(90^\circ - \theta) = \frac{a}{c}$ $\csc \theta(90^\circ - \theta) = \frac{c}{a}$
 $\cos(90^\circ - \theta) = \frac{b}{c}$ $\sec \theta(90^\circ - \theta) = \frac{c}{b}$
 $\tan(90^\circ - \theta) = \frac{a}{b}$ $\cot(90^\circ - \theta) = \frac{b}{a}$

$\csc \theta = \sec(90^\circ - \theta)$
 $\sec \theta = \csc(90^\circ - \theta)$
 $\cot \theta = \tan(90^\circ - \theta)$

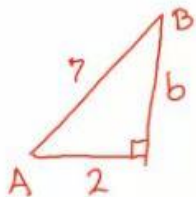
$a^2 + b^2 = c^2$
 $A + B = 90^\circ$



Bearings always start from N-S line

$a = 2$

$c = 7$



Find the exact values of the six trig functions from each picture

