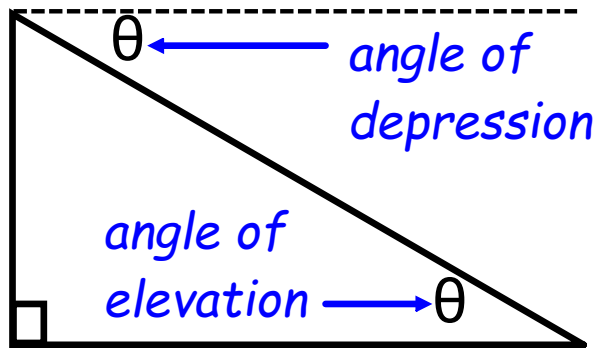


PreCalculus - Triangle Trig

Right Triangle Apps:



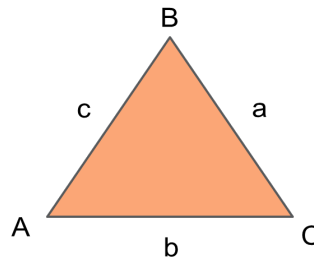
Area of a Triangle:

$$Area = \frac{1}{2}bc\sin A$$

$$Area = \sqrt{s(s-a)(s-b)(s-c)}$$

$$s = \frac{a+b+c}{2}$$

Law of Cosines (SAS or SSS):



- $a^2 = b^2 + c^2 - 2bc\cos A$
- $b^2 = a^2 + c^2 - 2ac\cos B$
- $c^2 = a^2 + b^2 - 2ab\cos C$

Rounding:

to the nearest ...

unit = 0 decimal places

tenth = 1 decimal place

hundredth = 2 decimal places

thousandth = 3 decimal places

ten-thousandth = 4 decimal places

hundred-thousandth = 5 decimals

Law of Sines (ASA or AAS):

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$