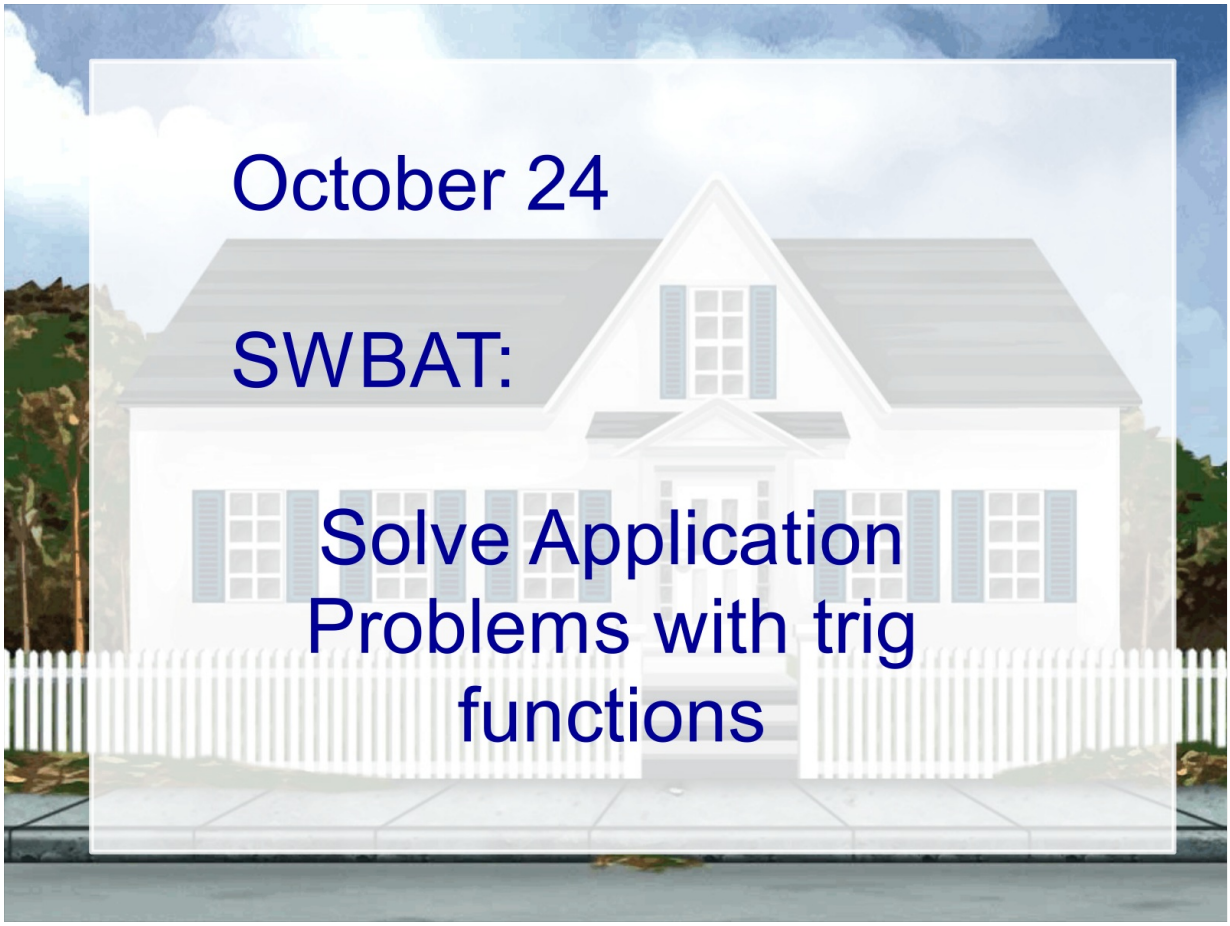
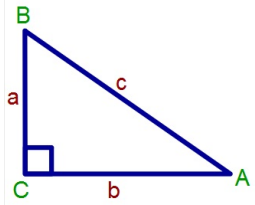




a = 10, b = 14
Find side c,
Angle A and Angle B

$10^2+14^2=c^2$
$100+196=c^2$
$296=c^2$
$\sqrt{296}=c$
$17.204=c$

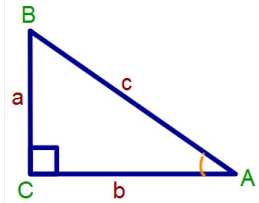
$\tan A=\frac{a}{b}$ $\sin A=\frac{a}{c}$ $\cos A=\frac{b}{c}$

$\tan A=\frac{10}{14}$ $\sin A=\frac{10}{\sqrt{296}}$ $\cos A=\frac{14}{\sqrt{296}}$

$A=\tan^{-1}\left(\frac{10}{14}\right)$ $A=\sin^{-1}\left(\frac{10}{\sqrt{296}}\right)$ $A=\cos^{-1}\left(\frac{14}{\sqrt{296}}\right)$

$A=35.538°$ $A=35.538$ $A=35.538$

$B=90-A$
$90-35.538$
$A=54.462°$



A = 54°, c = 15
Find side a, side b,
and Angle B

$\sin(54)=\frac{a}{15}$
$15\cdot\sin(54)=a$
$12.135=a$

$\cos(54)=\frac{b}{15}$
$15\cdot\cos(54)=b$
$8.816=b$
8.817

$B=90-A$
$90-54$
$B=36°$