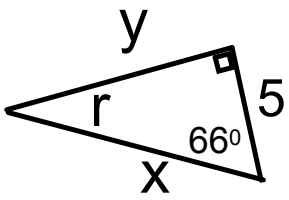
Solve the following triangle.



$r = 180 - 90 - 66$

$\boxed{r = 24^\circ}$

$\tan 66^\circ = \frac{opp}{adj}$

$= \frac{y}{5}$

$y = 5 \tan 66^\circ$

$\boxed{y = 11.2}$

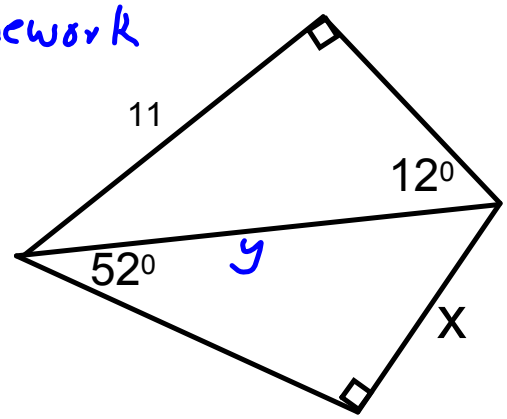
$X^2 = 5^2 + 11.2^2$

$= 150.44$

$X = \sqrt{150.44}$

$\boxed{X = 12.3}$

Homework #2



$\sin 12^\circ = \frac{11}{y}$

$y \sin 12^\circ = 11$

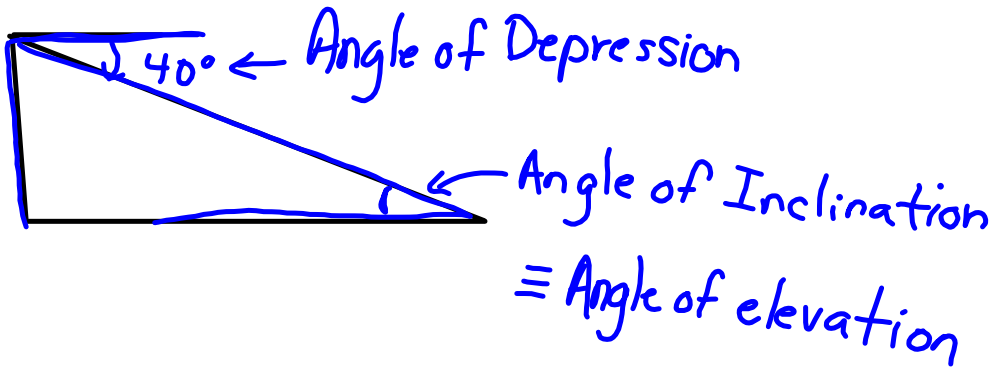
$y = \frac{11}{\sin 12^\circ}$

$= 52.9$

$\sin 52^\circ = \frac{x}{52.9}$

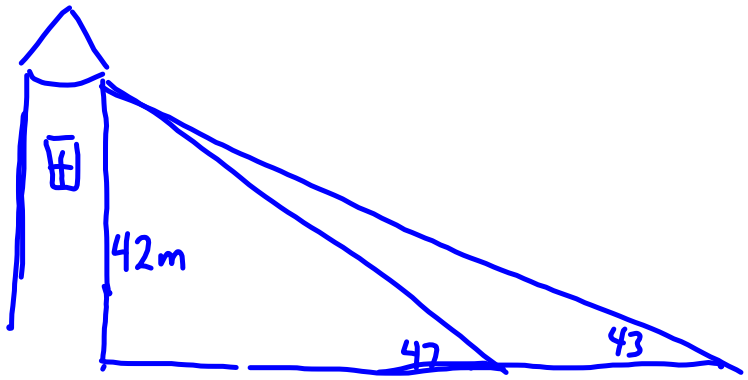
$x = 52.9 \sin 52^\circ$

$= 41.7$


40°
Angle of Depression
Angle of Inclination
≡ Angle of elevation

Homework

#11



$\tan 47° = \frac{42}{x}$ $\tan 43° = \frac{42}{y}$

$x = \frac{42}{\tan 47°}$ $y = \frac{42}{\tan 43°}$

$= 39.17$ $= 45.04$

Difference $45.04 - 39.17 = 5.87$

Test - Tomorrow