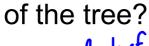
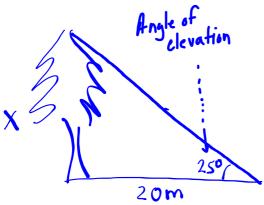
Life examples...

The angle of elevation (20m from a tree) to the top of the tree is 25°. What is the height

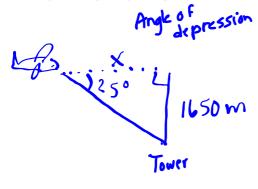




$$\begin{aligned}
 &+ an U = \frac{opp}{adj} \\
 &+ an 25^{\circ} = \frac{\chi}{\partial 0} \\
 &\times = 20 + an 25^{\circ} \\
 &= 9.3 m
 \end{aligned}$$

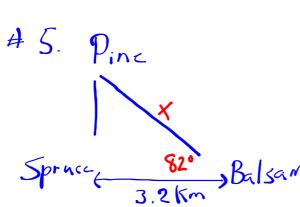
The angle of depression from a plane to the top of a tower is 25°. The altitude of the plane is 1650 m higher than the top of the tower.

What is the horizontal distance from the plane



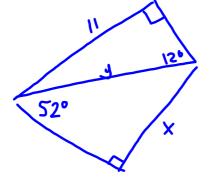
$$tan 0 = \frac{0pp}{adj}$$
 $tan 25° = \frac{1650}{x}$
 $x + \frac{1650}{4m^25°} + \frac{1650}{4m^25°}$
 $x = 3538.4 m$





Homework...worksheet

2.



Find y first.