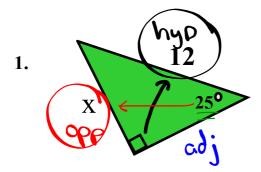
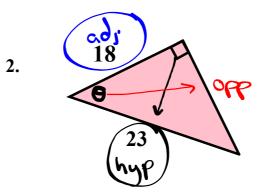
Warm Up Questions



$$\sin 35^\circ = \frac{13}{x}$$

$$\left[5.1 = \chi\right]$$

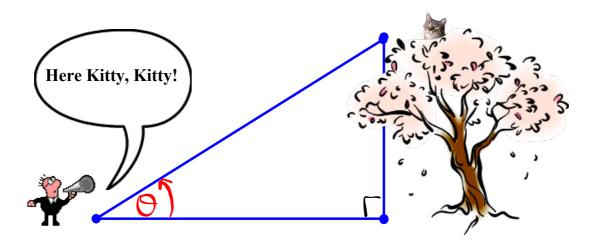


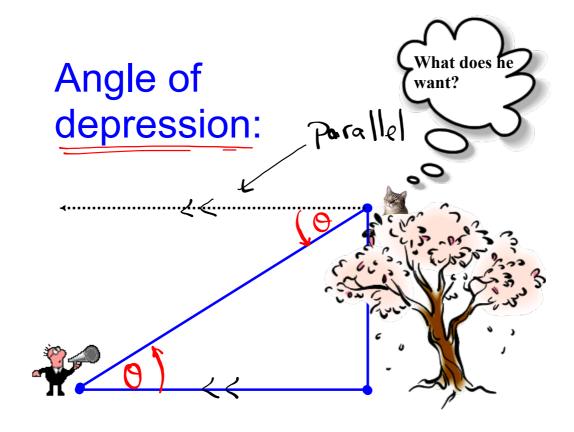
$$cos0 = \frac{odj}{hyp}$$

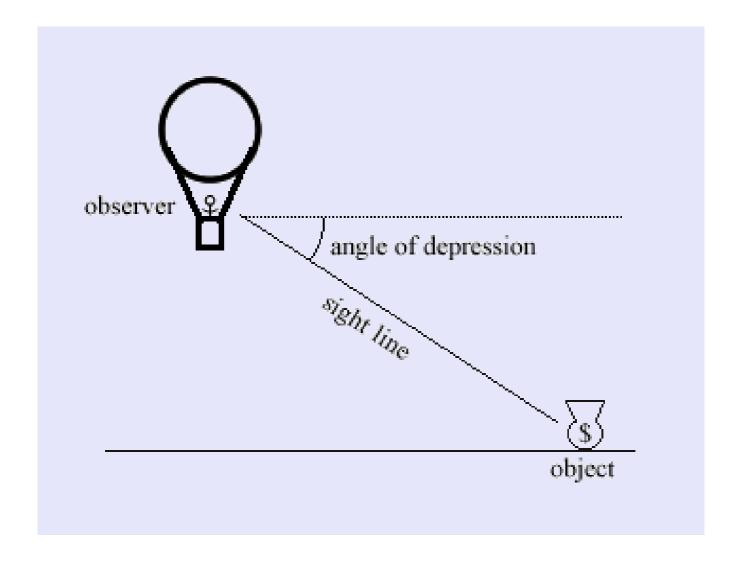
1

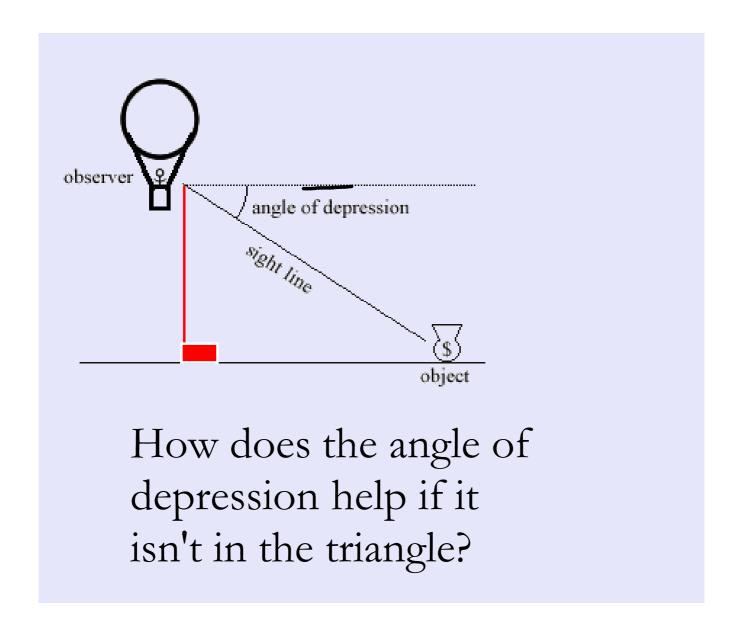


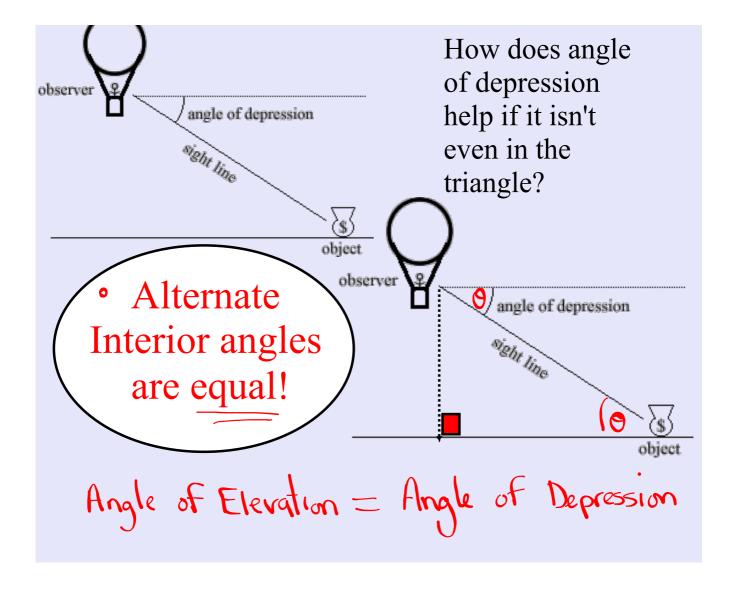
Angle of elevation:



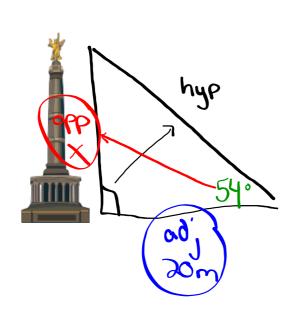








The angle of elevation to the top of a tower is 54 degrees. If the person is 20m away from the tower, how tall is the tower?

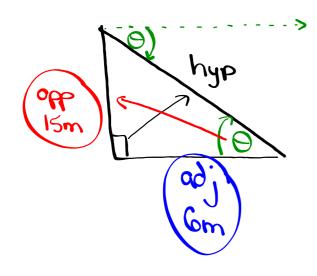


$$\tan Q = \frac{\alpha P}{\alpha \partial j}$$

$$\tan 54^{\circ} = \frac{x}{30}$$

$$30.5m = x$$

Calculate the angle of depression from the top of a building to a puppy on the ground, if the building is 15m tall and the puppy is 6m from the building.



$$tan0 = \frac{99}{60}$$

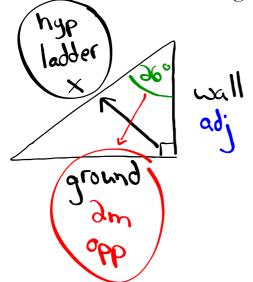
$$tan0 = \frac{15}{6}$$

$$tan0 = 3.5$$

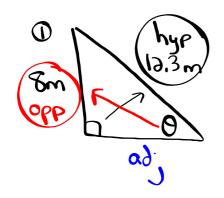
$$0 = tan^{-1}(3.5)$$

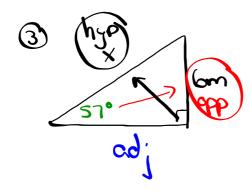
$$0 = 66^{\circ}$$

A ladder leans against a building and makes an angle of 26° degrees with the wall. If the base of the ladder is 2 m from the wall, how long is the ladder?

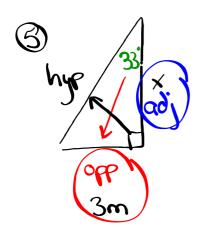


$$\sin 36 = \frac{x}{3}$$





$$sin51° = \frac{6}{x}$$



$$tan^{33} = \frac{3}{x}$$

