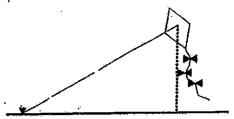
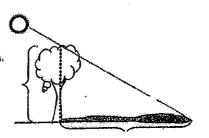
WS #28

Worksheet - Angles of Depression and Elevation

A kite with a string 150 feet long makes an angle of 45° with the ground, Assuming the string is straight, how high is the kite?

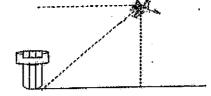


A tree 10 meters high casts a 17.3 meter shadow. Find the angle of elevation of the sun.

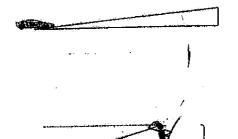


A plane is flying at an altitude of 12,000 m.

From the pilot, the angle of depression to the airport tower is 32°. How far is the tower from a point directly beneath the plane?



A car is traveling up a slight grade with an angle of elevation of 2°. After traveling 1 mile, what is the vertical change in feet?
(1 mile = 5,280 ft)



Prom the top of a fence, a person sites a lion on the ground at an engle of depression of 24°. If the man and the fence is 4.2 meters high, how far is the man from the lion?

