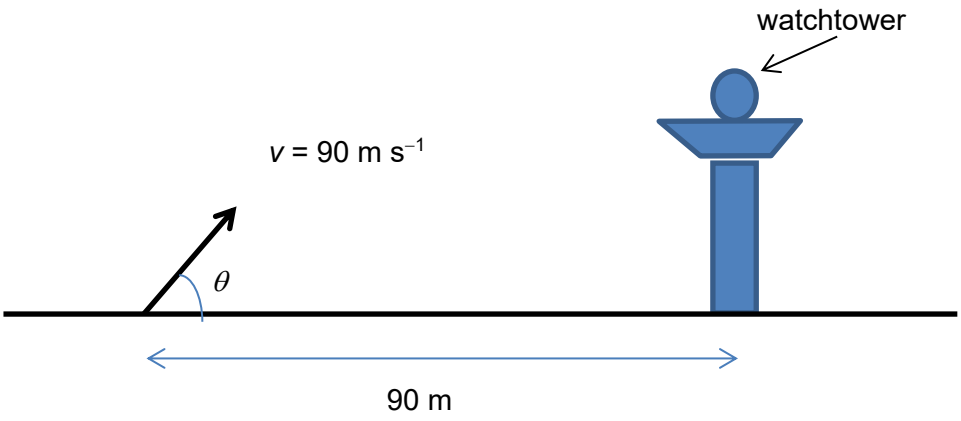
3 A projectile is fired at a speed of 90 m s^{-1} at sea level at an angle of $\theta = 31.6°$ with respect to the horizontal as shown below. The projectile hits the top of a watchtower located 90 m away.



How high is the top of the watchtower above sea level? Neglect air resistance.

A 49 m

B 72 m

C 83 m

D 113 m