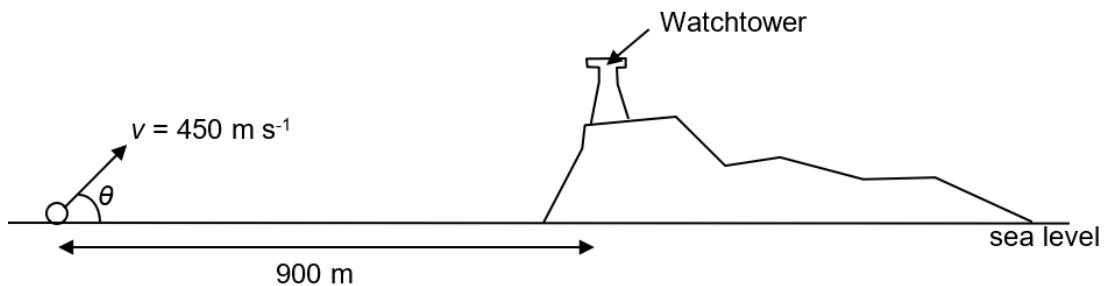


- 4 A cannon ball is fired at a speed of 450 m s^{-1} at sea level at an angle of $\theta = 31.6^\circ$ with respect to horizontal. The cannon ball hits the top of a watchtower located 900 m away.



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

A 526 m

B 542 m

C 580 m

D 1390 m

