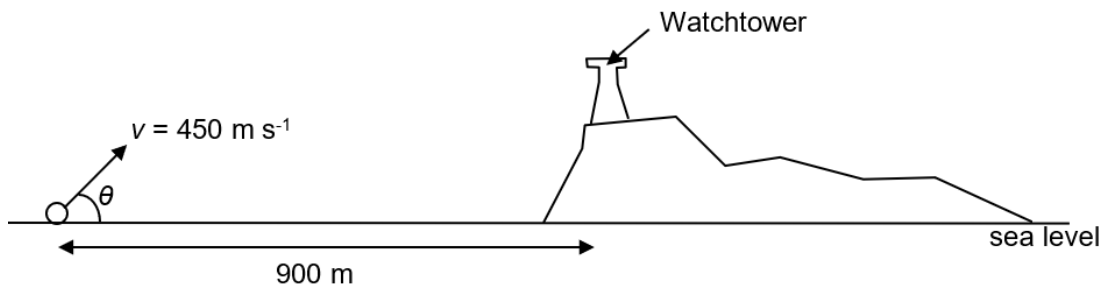


- 4 A cannon ball is fired at a speed of  $450 \text{ m s}^{-1}$  at sea level at an angle of  $\theta = 31.6^\circ$  with respect to horizontal. The cannon ball hits the top of a watchtower located 900 m away.



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

