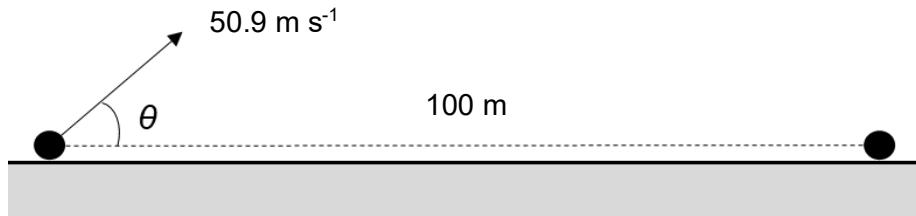


- 2 An object is launched with a speed of 50.9 m s^{-1} at an angle θ above the horizontal, as shown.



The ground is level. The object lands on the ground 100 m from its initial launch position.

What is the value of the angle θ ?

You may need to make use of the double angle formula: $\sin(2\theta) = 2\sin\theta\cos\theta$

A 2.8°

B 5.5°

C 11°

D 79°