3   A cannon at the top of a 30 m high hill fires a shell at an angle of 30.0° upwards from the horizontal with a speed of 50.0 m s⁻¹. Taking air resistance to be negligible, what is the angle to the vertical at which the shell lands on ground level?

A   7.93°   B   38.8°

C   51.2°   D   82.1°