2   An archer is standing level with the centre of a target, as shown.

The archer is a distance of 100 m from the target. The length of the arrow is negligible.

The archer fires an arrow at an angle θ above the horizontal. The arrow hits the centre of the target 2.0 s later. Air resistance is negligible.

What is θ?

A   2.8°   B   5.5°   C   11°   D   79°