2 A particle P is projected with speed $24\,\text{m s}^{-1}$ at an angle $\theta°$ above the horizontal from a point O on a horizontal plane, and moves freely under gravity. At a horizontal distance 35 m from O, there is a vertical wall of height 10 m which is perpendicular to the vertical plane of motion of P.

(a) Determine the two values of θ for which P just clears the wall. [4]

(b) Given that P clears the wall, find the minimum distance from point O where P can land. [2]