A particle P is projected from a point O with speed V m s^{-1}. At time t s after projection the horizontal and vertically upwards displacements of P from O are x m and y m respectively. The equation of the trajectory of P is $y = 2x - \frac{25x^2}{V^2}$.

(i) Write down the value of $\tan\theta$, where θ is the angle of projection of P. [1]

When $t = 4$, P passes through the point A where $x = y = a$.

(ii) Calculate V and a. [5]

(iii) Find the direction of motion of P when it passes through A. [3]