A particle is projected from a point on horizontal ground with speed $15 \,\mathrm{m\,s^{-1}}$ at an angle of θ° above the horizontal. The particle strikes the ground $2 \,\mathrm{s}$ after projection.

(i) Find
$$\theta$$
. [2]

(ii) Calculate the time after projection at which the direction of motion of the particle is 20° below the horizontal. [4]