

- (ii) Use your answer to part (b) (i) above to find the angle at which the plane is descending when it is 4 km from touchdown. Give your answer correct to the nearest degree.

- (c) Show that $(-2.5, 0.075)$ is the point of inflection of the curve $y = f(x)$.

- (d) (i) If (x, y) is a point on the curve $y = f(x)$, verify that $(-x - 5, -y + 0.15)$ is also a point on $y = f(x)$.

- (ii) Find the image of $(-x - 5, -y + 0.15)$ under symmetry in the point of inflection.

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