

(i) Find the equation of the curve.

[illegible]

(ii) Express $7 - x^2 - 6x$ in the form $a - (x + b)^2$, where a and b are constants.

[2]

This image shows a full page of white paper with horizontal dashed lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(iii) Find the set of values of x for which the gradient of the curve is positive.

[3]

[illegible]