



The diagram shows the curve with equation $y = 4x^{\frac{1}{2}}$.

- (i) The straight line with equation $y = x + 3$ intersects the curve at points A and B . Find the length of AB . [6]

This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dashed lines, providing a guide for letter height and placement. The lines are evenly spaced across the entire page, which is otherwise blank.

- (ii) The tangent to the curve at a point T is parallel to AB . Find the coordinates of T . [3]

[illegible]

- (iii) Find the coordinates of the point of intersection of the normal to the curve at T with the line AB . [3]

This image shows a full page of white paper with ten horizontal dashed lines, evenly spaced from top to bottom. These lines are typical of primary-ruled notebook paper used for teaching handwriting or basic writing skills. There are no margins, text, or other markings on the page.