

- (a) Find the equation of the normal to the curve at the point $(1, 0)$. [3]

[illegible]

- (b) Find $f(x)$. [4]

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.



1

$$125x^2 - 128x + 192 = 0.$$

- (c) Determine, making your reasoning clear, whether f is an increasing function, a decreasing function or neither. [3]

This image shows a full page of white paper with horizontal dashed lines, typical of primary school writing 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.