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(a) Show that the equation $\log_4(2x+1) = 2\log_4(3x-1) - 2$ can be written as a quadratic equation in x . [3]

[illegible]

- (b)** Hence solve the equation $\log_4(2x+1) = 2\log_4(3x-1) - 2$. [2]

[illegible]

[5]

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.