

3 (a) Sketch the graph of $y = |2x - 5|$ on the grid provided in the Printed Answer Booklet. [2]

(b) Solve the inequality $|2x - 5| < 1$. [2]

(c) **In this question you must show detailed reasoning.**

Hence find **all** the possible integer values N that satisfy the inequality

$$|2e^{0.1N} - 5| < 1. \quad [3]$$