2 **(a)** Use logarithms to solve the inequality $4^x < 0.05$. Give your answer in the form $x < a$, where the value of a is correct to 3 significant figures. [2]

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(b) Solve the inequality $|3x+8| < 9$. [3]

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(c) Hence state the integers that satisfy both of the inequalities in parts **(a)** and **(b)**. [1]

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