Algebra - 2021 A2

1. June/2021/Paper_9709/31/No.1

Solve the inequality $2|3x - 1| < |x + 1|$. [4]

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2. June/2021/Paper_9709/32/No.1

Solve the inequality $|2x - 1| < 3|x + 1|$. [4]

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3. March/2021/Paper_9709/32/No.2

The polynomial $ax^3 + 5x^2 - 4x + b$, where a and b are constants, is denoted by $\mathrm{p}(x)$. It is given that $(x + 2)$ is a factor of $\mathrm{p}(x)$ and that when $\mathrm{p}(x)$ is divided by $(x + 1)$ the remainder is 2.

Find the values of a and b. [5]

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