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Log Equation | Past Paper Question | C3 June 2014 Q2(a)

Find the exact solution, in their simplest form, to the equation

(a) $2 \ln(2x + 1) - 10 = 0$ (2)

$$\therefore 2 \ln(2x + 1) = 10$$

$$\therefore \ln(2x + 1) = 5$$

$$\therefore 2x + 1 = e^5$$

$$\therefore 2x = e^5 - 1$$

$$\therefore x = \frac{e^5 - 1}{2}$$

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