25th November

Solve

\[
\frac{81^x}{9^{x+1}} = 3\sqrt{3}
\]

Write down the equation of the curve shown.

Write \( x^2 - 6x + 1 \) in the form \((x + a)^2 + b\), where \(a\) and \(b\) are integers to the form.

Write \(3.418181818\ldots\) as a fraction.

C and D are two independent events

\[
\begin{align*}
P(C) &= 0.8 \\
P(D') &= 0.1
\end{align*}
\]

Find \(P(C \cup D)\)