## AQA - Exponentials and logarithms - A2 Mathematics P2

1. June/2021/Paper_7357/2/No. 6

Show that the solution of the equation

$$
5^{x}=3^{x+4}
$$

can be written as

$$
x=\frac{\ln 81}{\ln 5-\ln 3}
$$

Fully justify your answer.

