Exercise Sheet 1

Hand in your work by 9 October.

Solve the following equations for x (finding **all** and **exact** solutions). **Hint:** you can always check your solutions by inserting them into the equation.

1. (Warm-up question*) $4x - 8 = 4$.

2. (Warm-up question*) $5^x = 2$.

3. $x^2 - 3x - 4 = 0$.

4. $e^{2x}e^{2x} = 2$.

5. $(\ln x)^2 + 2\ln x = 3$.

6. $\ln(x + 1) + \ln(x - 2) = 0$.

Solutions will be available after the hand-in date at:
http://people.bath.ac.uk/rm257/MA10192/

RM, 12/09/2017

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*Do not hand in your work for this question.