

Quiz 6

Solve the equation below for x :

$$4(e^{-2x+2} + 3/4) = 7.$$

Solution. Distribute the 4 and subtract 3 from both sides to get $4e^{-2x+2} = 7 - 3 = 4$, which is equivalent to $e^{-2x+2} = 1$. This happens only if the exponent $-2x+2$ is zero. Thus $-2x = -2$, and $x = 1$.