

## Answer on Question #71682 - Chemistry - Physical Chemistry

Question:

Find the average value of  $\langle 1/r \rangle$  for the function  $\psi = e^{-r}$

**Solution:**

$$\varphi = e^{-r};$$

$$\log(\varphi) = \log(e) \cdot (-r);$$

$$-r = \frac{\log(\varphi)}{\log(e)};$$

$$r = -\frac{\log(\varphi)}{\log(e)};$$

$$\frac{1}{r} = -\frac{\log(e)}{\log(\varphi)}.$$

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