

Examine lim \$2 (e) with topes of using = e or (lim in (0x (top))) tet us to som > now > (lim h (bx(a)) Hospital (im Ox(n) - i+m) CHOSPITAL #2 $= \bigoplus_{\substack{5,0\\ \neq 5}} \bigoplus_{\substack{5,0\\ \neq 5}} \left(\varphi_{ii}^{\times}(0) - \varphi_{ij}^{\times}(0) - \varphi_{ij}^{\times}(0) \right)$ $= \bigoplus_{\substack{5,0\\ \neq 5}} \bigoplus_{\substack{7,0\\ \neq 5}} \left(\varphi^{\times}(0) \varphi_{ij}(0) - \varphi_{ij}(0) - \varphi_{ij}(0) \right)$ J. (Ja. le 1/2 de = Je = Jen < Is 02(E) EL]

$$=\frac{1}{2\pi}\int_{\mathbb{R}}e^{-\left(it8+\frac{t^{2}}{2}\right)}dt$$

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$$=\frac{1}{2\pi}\int_{\mathbb{R}}e^{-\left(it8+\frac{t^{2}}{2}\right)}\left(-\frac{t^{2}}{5z}+\frac{t^{2}}{2}\right)e^{-\frac{t^{2}}{2}}dt$$

$$=\frac{1}{2\pi}\int_{\mathbb{R}}e^{\frac{t^{2}}{2}}\int_{\mathbb{R}}e^{-\frac{t^{2}}{2}}\int_{\mathbb{R}}e^{-\frac{t^{2}}{2}}dt$$

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$$\begin{aligned} & \left[\left[\frac{1}{2} \right] = \left[\frac{1}{2} \right] = \left[\left[\frac{1}{2} \right]^{2} = \left[\left[\frac{1}{2} \right] \right] \\ & = \left[\frac{1}{2} \right] = \left[\left[\frac{1}{2} \right]^{2} = \left[\left[\frac{1}{2} \right] \right] \\ & = \left[\frac{1}{2} \right] = \left[\left[\frac{1}{2} \right] \right] = \left[\left[\frac{1}{2} \right] \right] = \left[\frac{1}{2} \right] \\ & \left[\frac{1}{2} \right] = \left[\frac{$$

$$Y \sim f_{X}(g^{1}(M)) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2}\right)\right)\right)^{2} = \frac{1}{2200^{2}} \left(\frac{1}{1200^{2}}\right)^{2} \left($$