(25) $\iiint_E x e^{x^2+y^2+z^2}\,dV = \iiint_E \rho\sin\phi\cos\theta\, e^{\rho^2}\,\rho^2\sin\phi\,d\rho\,d\theta\,d\phi$

$= \iiint_E \rho^3 e^{\rho^2}\sin^2\phi\cos\theta\,d\rho\,d\theta\,d\phi$

$\rho^2 \le 1$

$\rho \le 1 \quad \rho\in[0,1] \quad \theta\in[0,\frac{\pi}{2}] \quad \phi\in[0,\frac{\pi}{2}]$

$\int_0^{\frac{\pi}{2}}\int_0^{\frac{\pi}{2}}\int_0^1 \rho^3 e^{\rho^2}\sin^2\phi\cdot\cos\theta\,d\rho\,d\theta\,d\phi$

$\int_0^{\frac{\pi}{2}}\sin^2\phi\,d\phi \int_0^{\frac{\pi}{2}}\cos\theta\,d\theta \int_0^1 \rho^3 e^{\rho^2}\,d\rho$

$\left(\frac{\phi}{2} - \frac{\sin 2\phi}{4}\right]_0^{\frac{\pi}{2}}\Big)\left(\sin\left(\frac{\pi}{2}\right)\right)\left(\frac{\rho^2 e^{\rho^2}}{2} - \frac{e^{\rho^2}}{2}\right]_0^1\Big)$

$\left(\frac{\pi}{4}\right)(1)\left(\frac{1}{2}\right) = \boxed{\frac{\pi}{8}}$