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Exercises and solutions 2 Exercises and solutions Exercise 1.1 Consider the one-dimensional wave Gaussian wave function in the domain $-\infty < x < \infty$, $\psi(x,t) = Ne^{-i\omega t} e^{i(kx - \omega t)}$, with constants N , ω , and k . (a) Determine N . (b) Find $\langle x \rangle$, $\langle x^2 \rangle$, and $\langle p \rangle$. (c) Sketch the graph of $|\psi(x)|^2$. Useful integrals (also for later applications) are $\int_{-\infty}^{\infty} e^{-ax} dx = \frac{1}{a}$

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S11.12b. 1. Use de Broglie's equation to relate velocity to wavelength; solve for velocity. 2. Set the wavelength equal to the tunnel width and solve. $v = \frac{6.626 \times 10^{-34} \text{ J}\cdot\text{s}}{1670 \text{ kg} \times 6.6 \text{ m}} \times \frac{1}{\sqrt{2}}$ Answer: the car would have to be driving very slowly.

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4.3. The functi on $\psi(x)$ has to be real, nonnegative, finite, and of definite value everywhere. Why? Solution. If we follow the Born interpretation of wavefuntions, then $|\psi(x)|^2$ is a probability density and hence must follow standard probability properties including being non-negative, finite and of a definite value at any relevant point in the space of the wavefunction.

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Review Exercises 1. Transform (using the coordinate system provided below) the following functions accordingly: a. from cartesian to spherical polar coordinates $3x + y - 4z = 12$ b. from cartesian to cylindrical coordinates $y^2 + z^2 = 9$ c. from spherical polar to cartesian coordinates $r = 2 \sin \theta \cos \phi$.

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