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Consider the one-
dimensional wave
Gaussian wave function in
the domain $-\infty < x < \infty$,
 $\psi(x,t) = Ne^{-\lambda(x-a)^2/2}$
 $e^{-i\omega t}$, with constants N,
a and λ . (a) Determine N.
(b) Find $\langle x \rangle$, $\langle x^2 \rangle$, and Δx .
(c) Sketch the graph of
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negative, finite and of a definite value at any relevant point in the space of the wavefunction.

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