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a^2+k (20) The full solution, including time-dependence, is therefore $Y(x;t) = \frac{1}{2} [e^{ikx-i\hbar k^2 t} + e^{-ikx-i\hbar k^2 t}]$ (21) = 1 ? $a^3=2 \text{ ¥ ¥}$.
 $e^{ikx-i\hbar k^2 t} = 2m$. a^2+k dk (22) This integral is clearly not easy and probably doesn't have a closed form, but the idea of how a problem is solved should be clear from this example.

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Introduction to Elementary Particles

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Griffiths begins with the interesting History of elementary particles, from the electron to the Standard Model (I've never read it before), letting you know how every kind of particle was discovered. Then it makes a review of the elementary forces and gives an intuitive notion of how their behaviour.

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INTRODUCTION TO ELEMENTARY PARTICLES

David Griffiths: Introduction to Quantum Mechanics. Here are my solutions to various problems in David J. Griffiths's textbook Introduction to Quantum Mechanics, Second Edition. Obviously I can't offer any guarantee that all the solutions are actually correct, but I've given them my best shot. There is an official site listing errata in the textbook.

Griffiths: Introduction to Quantum Mechanics

$E = \sqrt{p^2 c^2 + m^2 c^4}$ where, (as expected) the non-relativistic limit of the particle energy and momentum are (in natural units) $E = m + \frac{1}{2} m v^2$ and $p = m v$. 3.8 Hint:

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Here $p_a = (E_a; 0; 0; p_a)$ and $p_b = (m_b; 0; 0; 0)$.

3.9 Hint: First write $p \cdot s E_1 = E_2$ and square to eliminate E_2 and then eliminate E_1 by again squaring. 3.10 Hint: a) Differentiating

$$E^2 = p^2 + m^2$$

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