$$EY(x) = \frac{h^2}{2m} \frac{dx}{dx} \cdot Y(x) + V(x)Y(x)$$

$$V(x) = \frac{h^2}{2m} \frac{dx}{dx} \cdot Y(x) = \frac{1}{2} \cdot \frac{1}{2}$$

$$EY(x) = \frac{h^{2}}{2m} \frac{d}{dx} {}^{2}Y(x) + V(x)Y(x)$$

$$V(x,t) = \sum_{i} a_{i} b_{i} b_{i} e^{-iE_{i}} Y(x)$$

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$$E = \sum_{i} a_{i} e^{-iE_{i}} Y(x)$$

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