Follows

N.A.

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$$= |A'|^{2} \cdot \frac{L}{2} \implies |A'| = \int_{-L}^{2} = \partial A i \frac{|A'|^{2} = |\nabla a' + (2AA)^{2}}{|A'| = \partial A i}$$

$$\Rightarrow \forall (x) = \int_{-L}^{2} \sin(\Delta \pi x) \frac{|A'|^{2} = |\Delta A|}{|A'|^{2} = |\Delta A|}$$

$$\Rightarrow \forall (x) = \int_{-L}^{L} \sin(n\pi x)$$

