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$$X_{u}(a) = 0 = A e^{\frac{n\pi}{6}a} + Be^{-\frac{n\pi}{6}a} = 0$$

$$X_{u}(x) = B e^{-\frac{n\pi}{6}a} + e^{-\frac{n\pi}{6}x}$$

$$X_{u}(x) = B e^{-\frac{n\pi}{6}a} + e^{-\frac{n\pi}{6}x}$$

$$= -\frac{n\pi}{6}(x-a)$$

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$$\sum_{n=1}^{\infty} C_n \sin y \left(\frac{n\pi}{b}(-\alpha)\right) \sin y \left(\frac{n\pi}{b}y\right)$$

$$= g(y)$$

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$$C_n \sin y \left(\frac{n\pi}{b}(-\alpha)\right) = \frac{2}{b} \int_{-\infty}^{\infty} g(y) \sin \left(\frac{n\pi}{b}y\right) dy$$

$$\Rightarrow C_n = \frac{2}{b \sinh \left(\frac{n\pi}{b}(-\alpha)\right)} \int_{-\infty}^{\infty} g(y) \sin \left(\frac{n\pi}{b}y\right) dy$$