Canonical commutation relation in one dimension:

$$XP - PX = i\hbar$$

Let

$$X = x, \quad P = -i\hbar \frac{d}{dx}$$

Then

$$\begin{split} (XP - PX)\psi(x) &= XP\psi(x) - PX\psi(x) \\ &= x\left(-i\hbar\frac{d}{dx}\psi(x)\right) + i\hbar\frac{d}{dx}\big(x\psi(x)\big) \\ &= -i\hbar x\frac{d}{dx}\psi(x) + i\hbar\left(\frac{d}{dx}x\right)\psi(x) + i\hbar x\frac{d}{dx}\psi(x) \\ &= i\hbar\psi(x) \end{split}$$

Eigenmath code:

Result:

$$i\hbar\psi(x)$$