Fourier
$$(\Psi | x) = \langle x | \Psi \rangle$$

Fourier $(\Psi | x) = \langle x | \Psi \rangle$
 $\delta(x - x_0) \neq | x_0 \rangle$
 $\delta(x - x_0) \neq | x_0 \rangle$
 $\langle x | x \rangle = 1$
 $\langle x_0 | x \rangle \in \mathcal{E}$
 $| \Psi \rangle = (x_0 | x_0 \rangle)$
 $A = (x_0 | x_0 \rangle) \in \mathcal{E}$
 $A = (x_0 | x_0 \rangle)$
 $A = (x_0 | x_0$

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