1.2 Decompose the circuit into a single simple quantum state

a) $-[H]-[T]-[T^+]-[T]-[T^+]-[H]-$

$-[I]-$

Identity gate

b) $-[H]-[T]-[S^+]-[T^+]-[S]-[X]-[H]-$

$-[I]-$

identity gate

c) $-[H]-[S]-[X]-[S^+]-[X]-[T]-[T^+]-[H]-$

$-[X]-$ X-gate

d) $-[T]-[X]-[T^+]-[H]-[S]-[S^+]-[\wedge]-[H]-[T]-[X]$

$-[I]-$ with phase angle $(\wedge)$

e) $-[H]-[T]-[X]-[T^+]-[X]-[T]-[X]-[T^+]-[X]-$
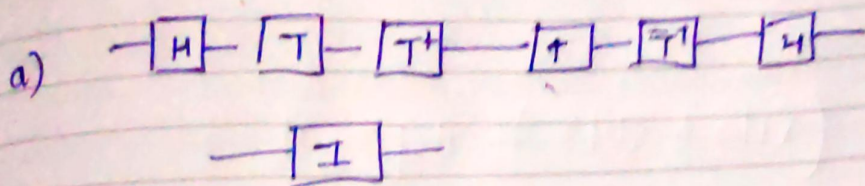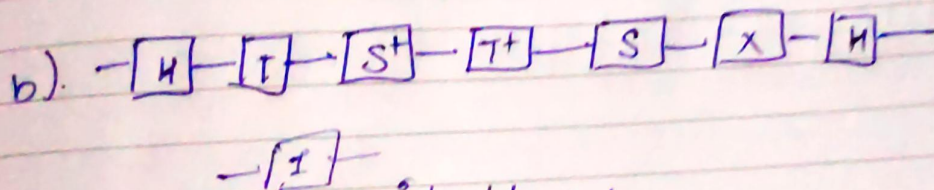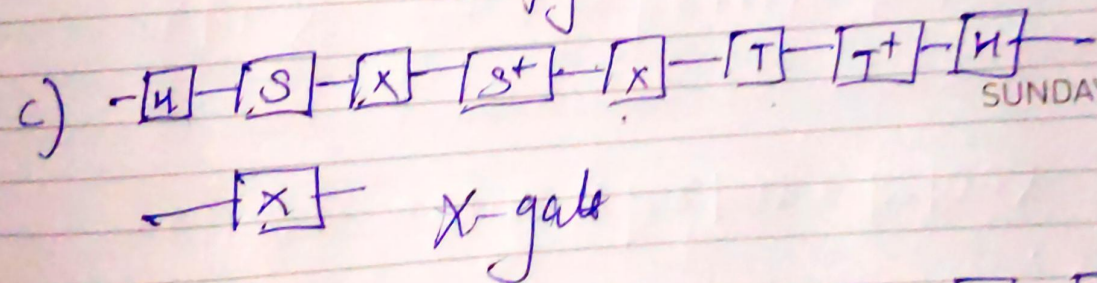
$-[X]-$ x-gate
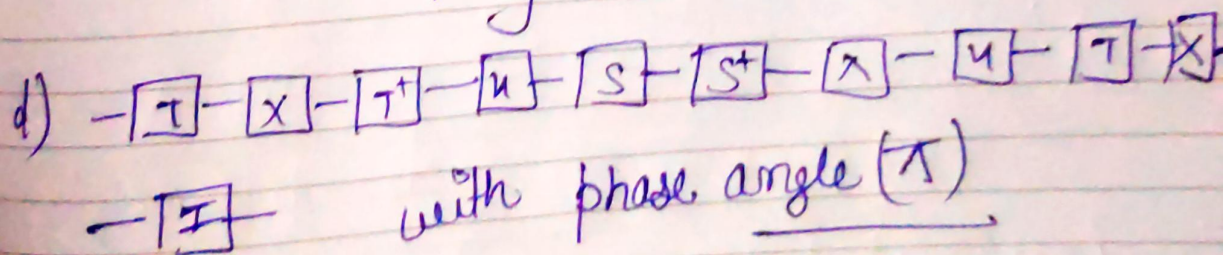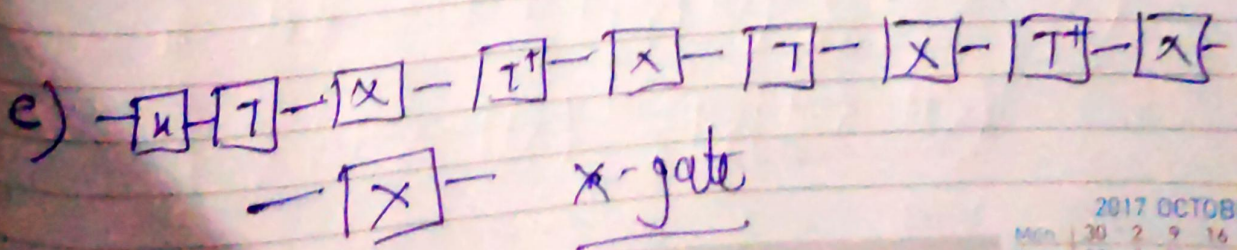
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