JETT 9

IF $Y(x) = A(\cos(x) + i \sin(x)) = Ae^{ix}$ THEN $|Y(y)|^2 = Ae^{ix} \cdot Ae^{-ix} = A^2$ WHICH HAS NO DEPENDENCE ON X.

BY P(x) dx = |Y(x)| dx, IF |Y// WAS

PEDENDENT ON X THE THE PROBRETTY

OF FINDING THE PARTICLE AT X

WONLD BE VARIABLE (i.e., NOT EQUALLY

LIKELY TO BE ANYWHEZE ON X).