

quantum
level

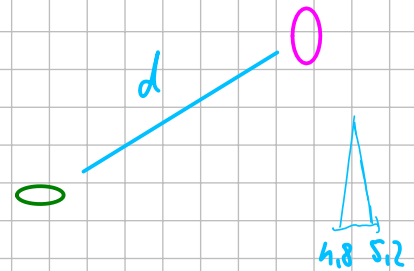
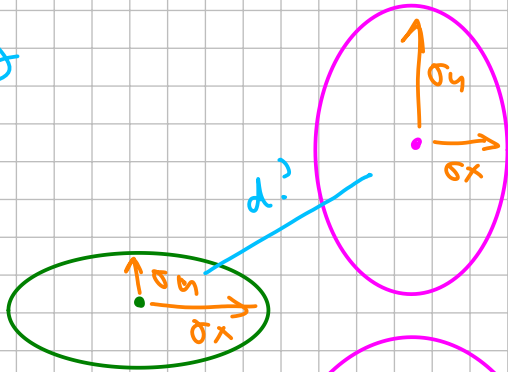
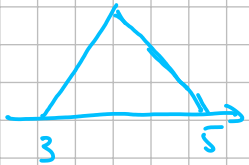
quantum
power

$d = ?$
light wavelength

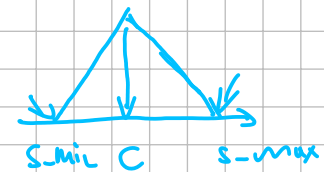
$$g(x; m, \sigma) =$$

$$= \exp\left(-\frac{(m-x)^2}{2\sigma^2}\right)$$

2 qing



d light wavelength



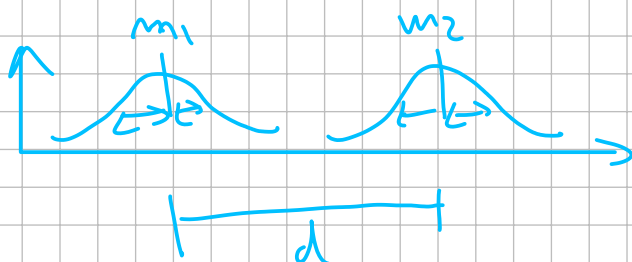
$$3 + 2 = 5$$

ket ket ket

$$3 / 2 = 1.5$$

N N Z

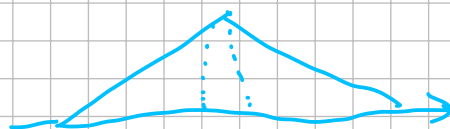
$$\triangle + \triangle \rightarrow \triangle$$



1 cyviri

$$d = (\Delta m - \square, m_2 - m_1, \Delta m + \square)$$

$$\square = \max(\sigma_1, \sigma_2)$$



u cyviri

$$E_{\text{uk}} = \sqrt{\sum_{i=1}^n d_i^2}$$

+

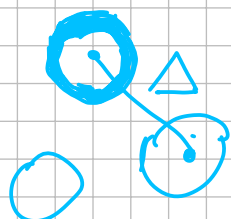
$$\begin{matrix} m_1 \\ m_1 - \sigma_1 & m_1 + \sigma_1 \\ \triangle \end{matrix} + \begin{matrix} m_2 \\ m_2 - \sigma_2 & m_2 + \sigma_2 \\ \triangle \end{matrix} =$$

$$\begin{matrix} m_1 + m_2 \\ m_1 + m_2 - \max(\sigma_1, \sigma_2) \\ \triangle \end{matrix}$$

$$\left[\text{Diagram of two circles with a line connecting them} \right]$$

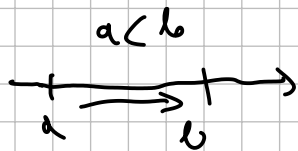
*

$$\begin{matrix} \triangle \\ m_1 \times m_2 \\ \max(\sigma_1, \sigma_2) \end{matrix} \times \begin{matrix} \triangle \\ m_2 \\ \max(\sigma_1, \sigma_2) \end{matrix} = \begin{matrix} \triangle \\ m_1 \times m_2 \\ \max(\sigma_1, \sigma_2) \end{matrix}$$



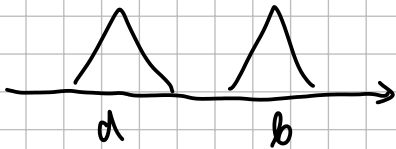
$$\sqrt{\Delta} = \sqrt{m}$$

σ σ



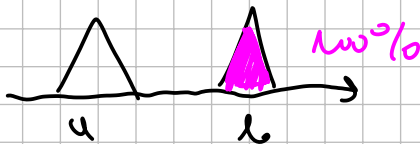
$$\vec{d}(a, b) > 0 \Leftrightarrow a < b$$

$$\vec{d}(a, b) < 0 \Leftrightarrow b < a$$



$$\vec{d}(a, b) > \Delta$$

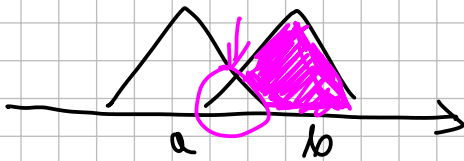
operator $\angle(a, b) \in \{0, 1\}$ the last
 $\in (0, 1)$ the Δ
 $\alpha \uparrow 0, 1$



$$a < b \quad op\angle(a, b) = 1, 0$$



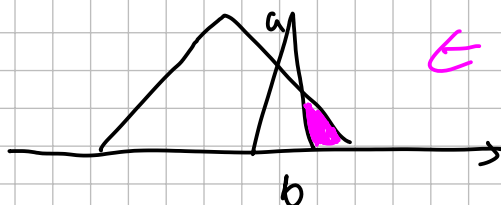
$$op\angle(a, b) = 0, 0$$



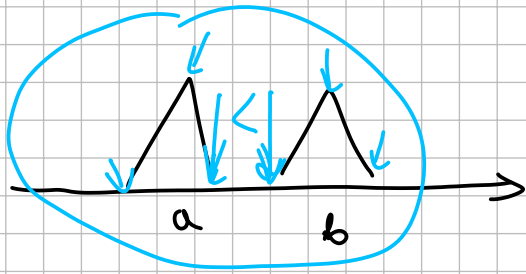
$$op\angle(a, b) \in \underline{\underline{(0, 1)}}$$



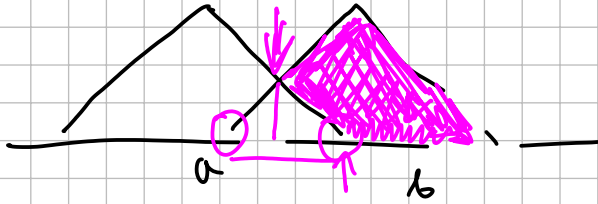
$$op\angle(a, b) = 0, 0$$



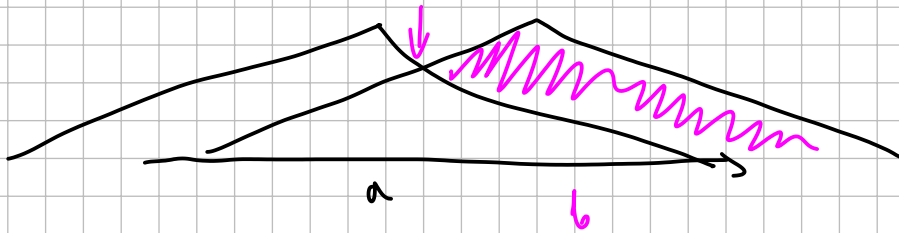
$$\boxed{op\angle(a, b) = 0, 1}$$



0.7



0.8



0.6

function $[8][a](\Delta a, \Delta b)$

{

$\infty < (a, b) < \alpha \rightarrow \text{false}$
 $\hookrightarrow \text{true}$

}