

0605/2863

$$\underline{64x = -2}, \quad \frac{3\pi}{2} < x < 2\pi$$

$$A = \frac{2m\hbar x \cdot 6\omega x}{1 + 6\omega x}$$

$$\{x\omega \quad \{4x = -\frac{1}{2}$$

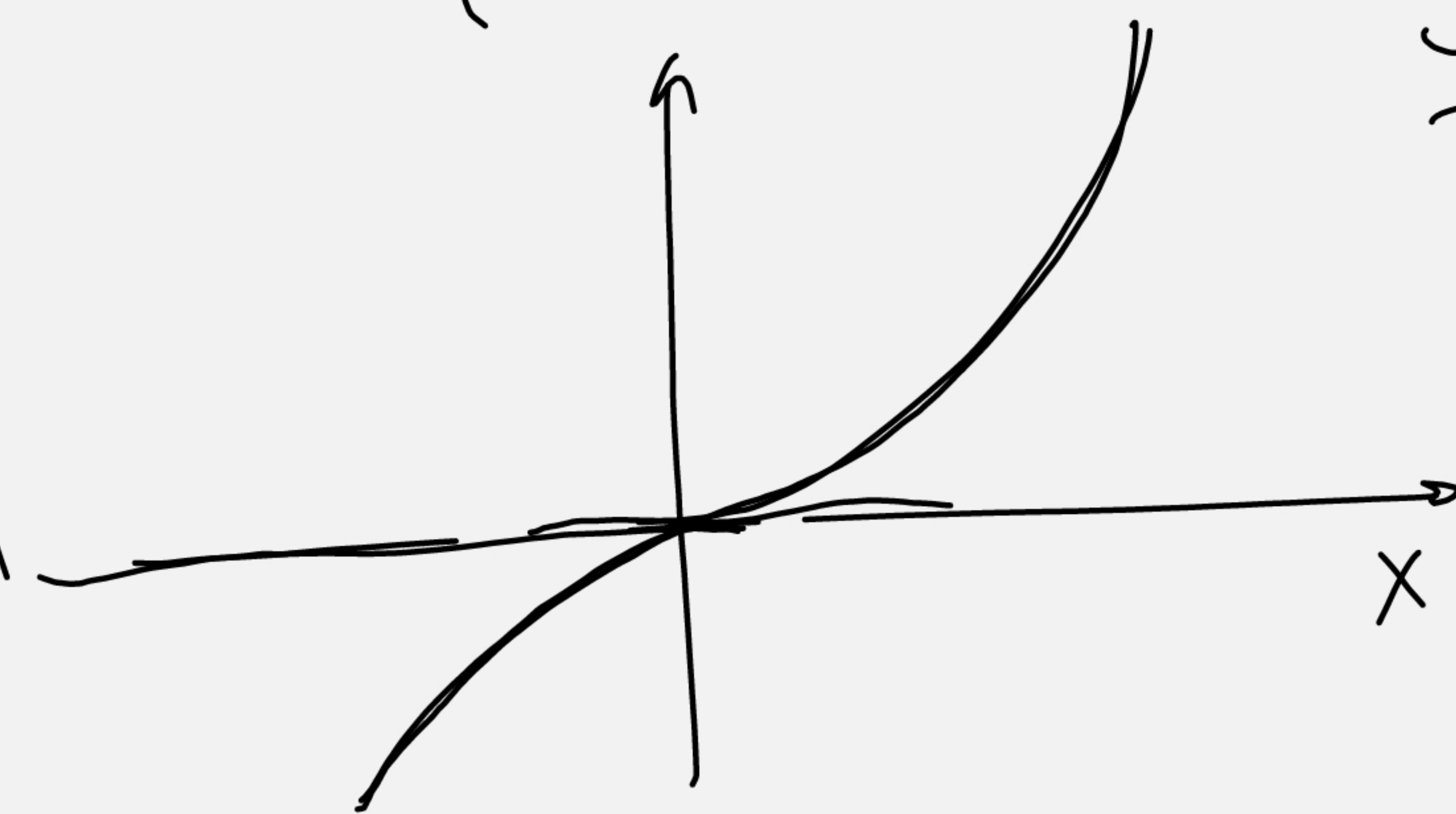
$$\boxed{6\omega^3 x = \frac{1}{1 + \{4^2 x}} \quad \therefore \dots \dots \dots$$

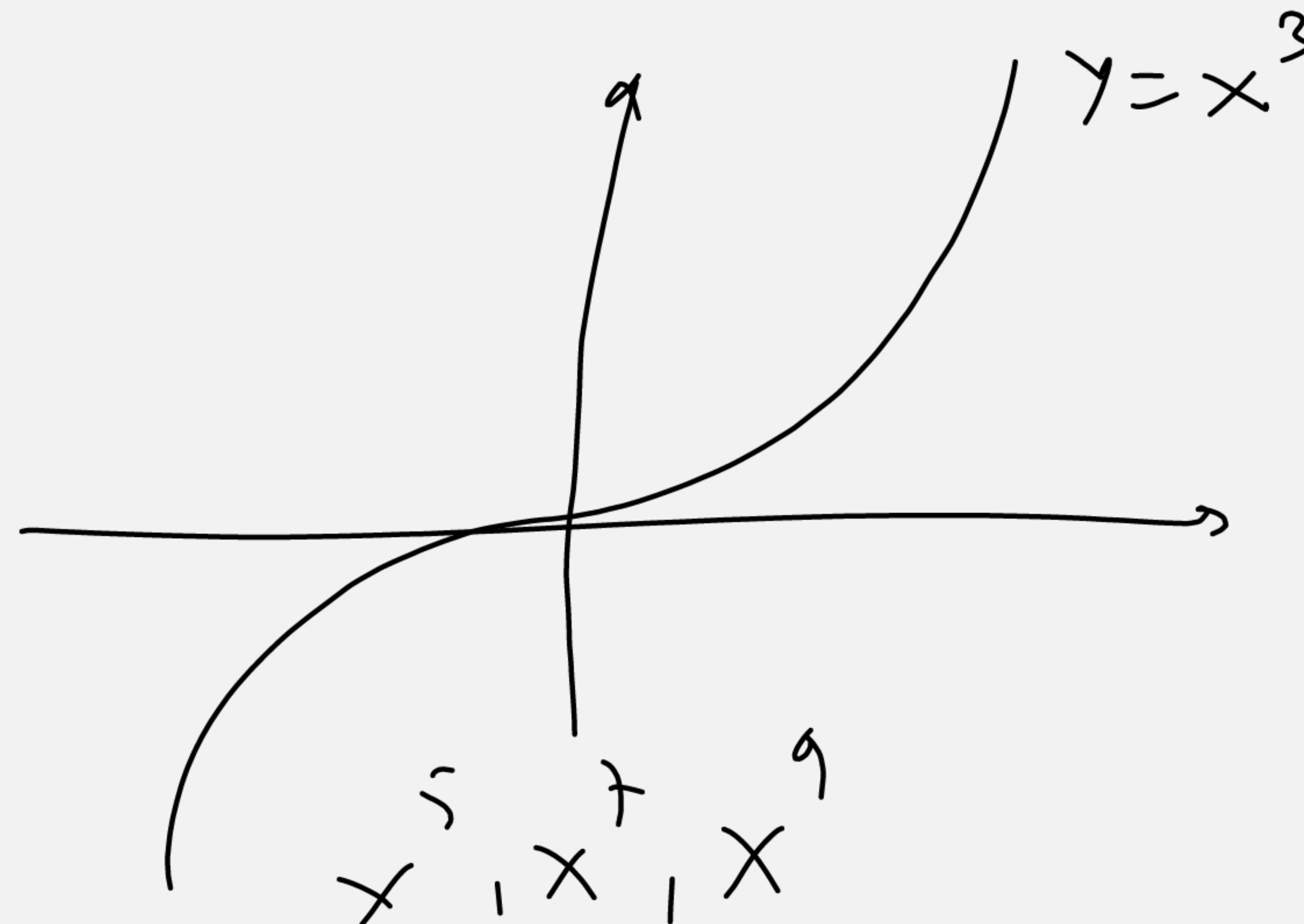
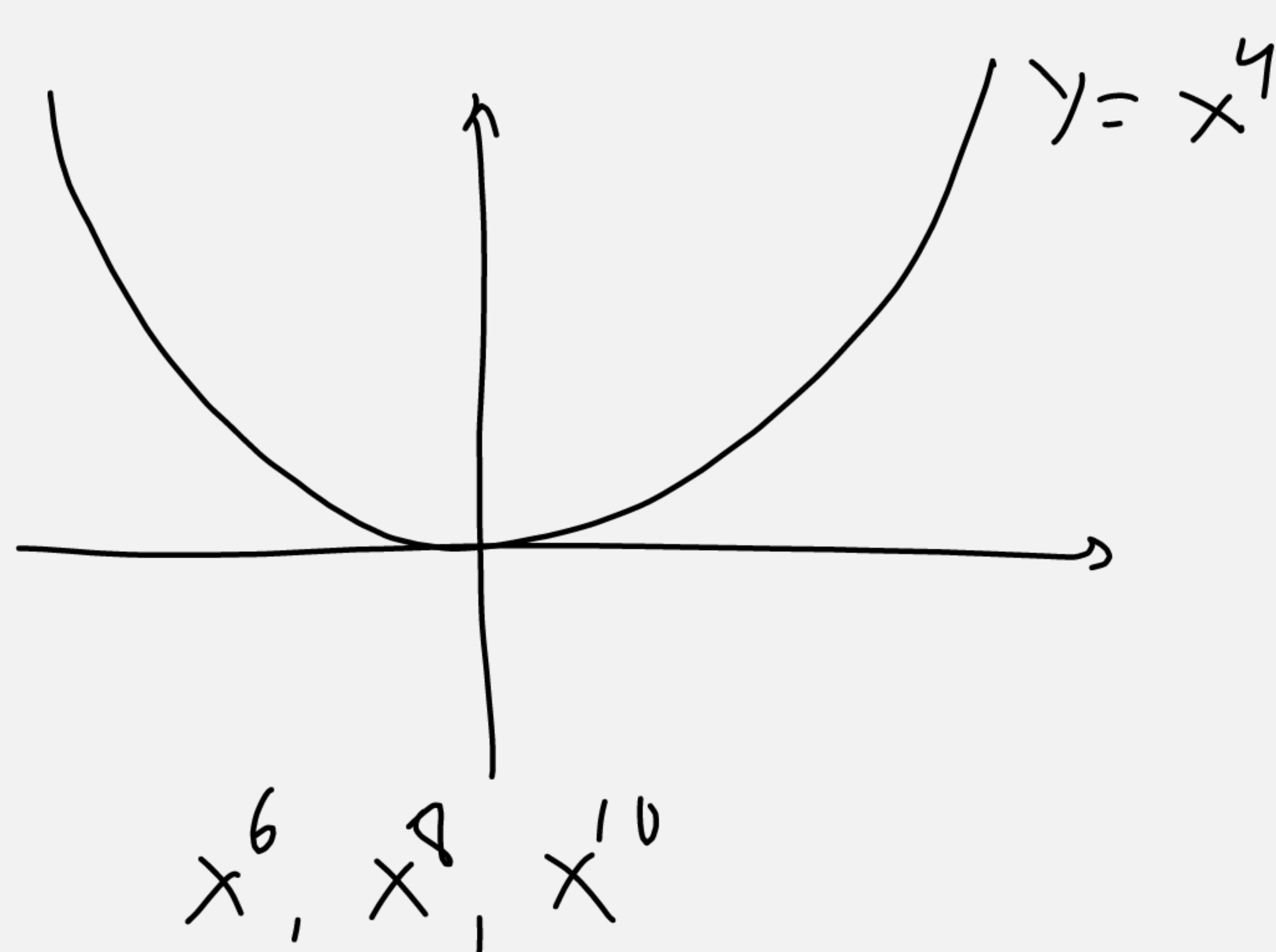
$m\hbar x.$

$$\frac{m\hbar^2 x}{6\omega^2 x} + \frac{6\omega^2 x}{6\omega^2 x} = \frac{1}{6\omega^2 x}$$

$$\frac{\{4^2 x + 1}{1} = \frac{1}{6\omega^2 x} \quad \Leftarrow$$

$$f(x) = \begin{cases} x^2, & \text{du } x \geq 0 \\ -x, & \text{du } x < 0 \end{cases} \quad f \uparrow \text{ on } \mathbb{R}.$$





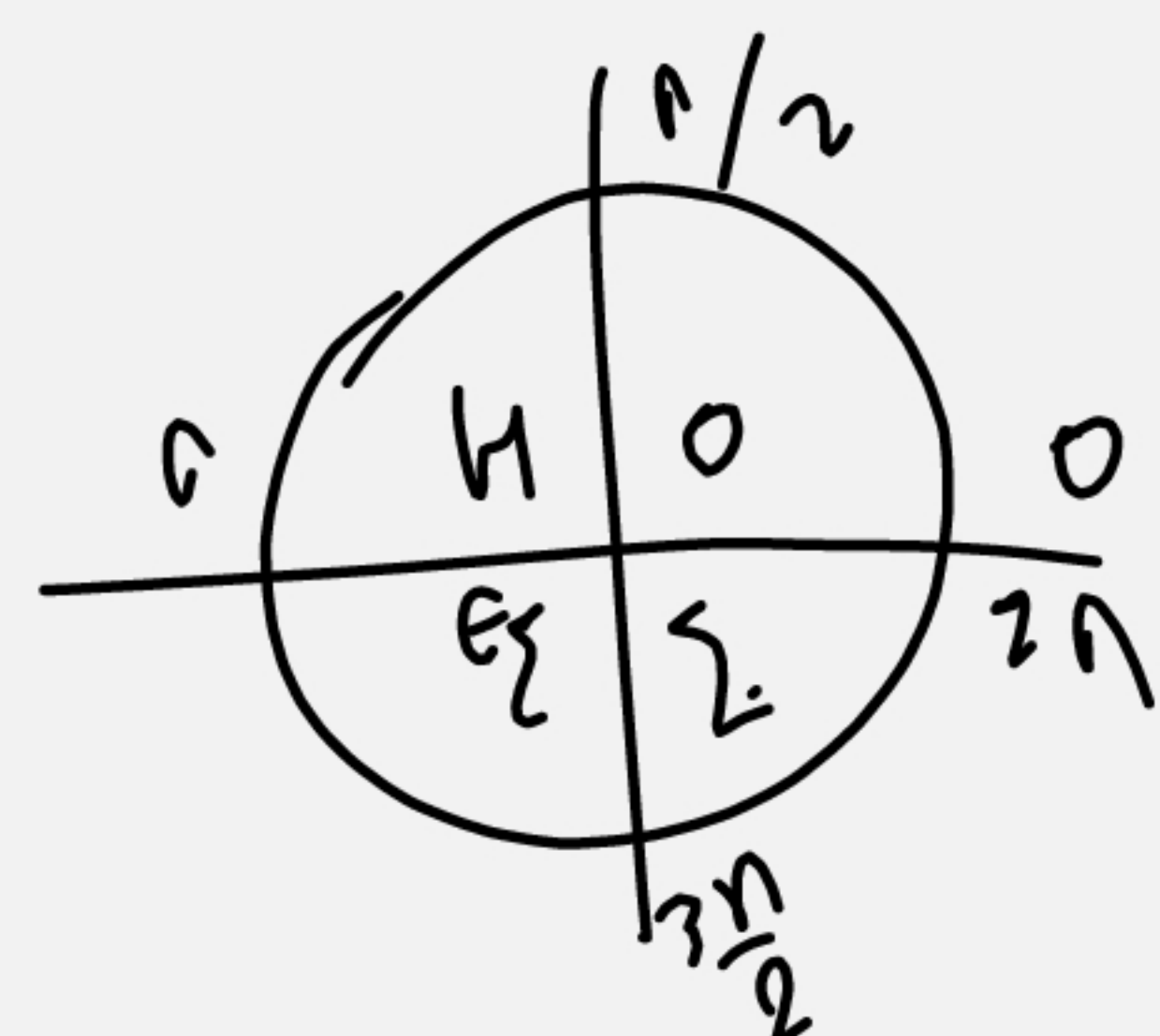
$$A = \frac{2m\mu X \cdot GwX}{1 + GwX} = \frac{2 \cdot \left(-\frac{1}{\sqrt{5}}\right) \cdot \frac{2}{\sqrt{5}}}{1 + \frac{2}{\sqrt{5}}}$$

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At $G\varphi X = -2, \frac{3\pi}{2} < X < 2\pi$.

$$\varepsilon\varphi X = \frac{1}{G\varphi X} = -\frac{1}{2} \quad GwX = \frac{1}{1 + \varepsilon\varphi^2 X} = \frac{1}{1 + \left(-\frac{1}{2}\right)^2} = \frac{1}{1 + \frac{1}{4}} = \frac{1}{\frac{5}{4}} = \frac{4}{5}$$

At $GwX = \pm \sqrt{\frac{4}{5}} = \pm \frac{2}{\sqrt{5}} \Rightarrow \boxed{GwX = \frac{2}{\sqrt{5}}}$



$\frac{3\pi}{2} < X < 2\pi$

$m\mu^2 X + Gw^2 X = 1$
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$$\varepsilon\varphi X = \frac{2\pi X}{GwX} \quad (-1)$$

$-\frac{1}{2} = \frac{2\pi X}{\frac{2}{\sqrt{5}}} \Rightarrow 2\pi X = -\frac{2}{\sqrt{5}} \Rightarrow \boxed{2\pi X = -\frac{1}{\sqrt{5}}}$

$$\underline{abu.1 - BOM / \Sigma \varepsilon \lambda 64}$$

$$m\mu X + 6wX = a$$

$$i) m\mu X \cdot 6wX \quad \text{Guaranties for } a.$$

$$m\mu X + 6wX = a \Rightarrow$$

$$(m\mu X + 6wX)^2 = a^2 \quad (=)$$

$$\underbrace{m\mu^2 X + 2m\mu X \cdot 6wX + 6w^2 X}_{\quad} = a^2 \quad (=)$$

$$1 + 2m\mu X \cdot 6wX = a^2 \quad (=)$$

$$\frac{2m\mu X \cdot 6wX}{2} = \frac{a^2 - 1}{2}$$

$$(ii) \quad \frac{\overbrace{1}^{6wX}}{m\mu X} + \frac{\overbrace{1}^{m\mu X}}{6wX} = \frac{6wX}{m\mu X \cdot 6wX} + \frac{m\mu X}{m\mu X \cdot 6wX} =$$

$$= \frac{6wX + m\mu X}{m\mu X \cdot 6wX} = \frac{a}{\frac{a^2 - 1}{2}} = \frac{2a}{a^2 - 1}$$

$$iii) \quad \{ \varphi X + 6\varphi X = \frac{\overbrace{m\mu X}^{6wX}}{6wX} + \frac{\overbrace{6wX}^{m\mu X}}{m\mu X} =$$

$$= \frac{m\mu^2 X}{m\mu X \cdot 6wX} + \frac{6w^2 X}{m\mu X \cdot 6wX} = \frac{m\mu^2 X + 6w^2 X}{m\mu X \cdot 6wX} = \frac{1}{\frac{a^2 - 1}{2}} =$$

$$\text{Tanzenz: } a^3 + b^3 = (a+b)^3 - 3ab \cdot (a+b)$$

$$\text{Ansdan: } (a+b)^3 = a^3 + \underline{3a^2b} + \underline{3ab^2} + b^3 \quad (=)$$

$$(a+b)^3 = a^3 + \underline{3ab \cdot (a+b)} + b^3 \quad (=)$$

$$(a+b)^3 - 3ab \cdot (a+b) = a^3 + b^3$$

$$(iv) \quad m\mu^3x + 6w^3x = (m\mu x + 6wx)^3 - 3m\mu x \cdot 6wx \cdot (m\mu x + 6wx) =$$

$$= a^3 - 3 \frac{a^2 - 1}{2} \cdot a$$

$$a^3 + b^3 = (a+b)^3 - 3ab(a+b)$$

$$(v) \quad \underline{m\mu^4x + 6w^4x}.$$

$$m\mu^2x + 6w^2x = 1 \quad \text{---}$$

$$(m\mu^2x + 6w^2x)^2 = 1 \quad \text{---}$$

$$\underline{m\mu^4x} + 2m\mu^2x \cdot 6w^2x + \underline{6w^4x} = 1 \quad (=)$$

$$m\mu^4x + 6w^4x + 2(m\mu x \cdot 6wx)^2 = 1$$

$$\underline{m\mu^4x + 6w^4x} + 2 \cdot \left(\frac{a^2 - 1}{2} \right)^2 = 1$$

$$\underline{m\mu^4x + 6w^4x} = 1 - 2 \cdot \left(\frac{a^2 - 1}{2} \right)^2$$