$$\sin^2\alpha + \cos^2\alpha = 1$$

$$PH^2 + OH^2 = OP^2$$

$$x^2 - 5x + 4 \geq 0$$

$$x \leq x_1 \vee x \geq x_2$$

$$\Delta = b^2 - 4ac \qquad \frac{-b \pm \sqrt{\Delta}}{2a}$$

$$\Delta = 25 - 16$$

$$x \leq 1 \vee x \geq 4$$

$$\Delta = 9$$

$$\frac{5 \pm 3}{2} \begin{matrix} \nearrow 4 \\ \searrow 1 \end{matrix}$$

$\cos\alpha = \frac{4}{5}$

$\sin\left(\alpha + \frac{\pi}{6}\right)$

$\alpha > 270 \quad \alpha < 360$

$\left(\sin\alpha\right)\left(\cos\frac{\pi}{6}\right) + \left(\sin\frac{\pi}{6}\right)\left(\frac{4}{5}\right)$

$\left(\sin\alpha\right)\left(\frac{\sqrt{3}}{2}\right) + \left(\frac{1}{2}\right)\left(\frac{4}{5}\right)$

$-\frac{3}{5}\frac{\sqrt{3}}{2} + \frac{1}{2}\frac{4}{5}$

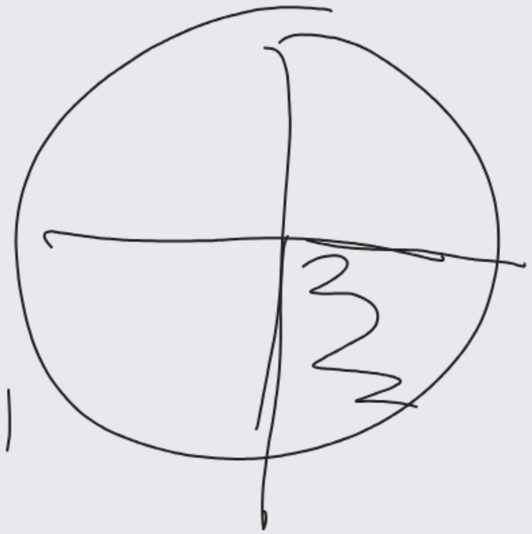
$\frac{-3\sqrt{3}}{10} + \frac{4}{10}$ $\qquad \frac{-3\sqrt{3}+4}{10}$

$\sin^2\alpha + \cos^2\alpha = 1$

$\sin^2\alpha = -\cos^2\alpha + 1$

$\sin^2\alpha = -\frac{16}{25} + 1$

$\frac{-16+25}{25} = \frac{9}{25} \rightarrow \pm\frac{3}{5} \rightarrow \sin\alpha$



$$\cos 2\alpha - \frac{(\cos\alpha)(\sin\alpha)}{\sin\alpha}$$

$$\cos^2\alpha - \sin^2\alpha - (\cos\alpha)\left(\frac{\cos\alpha}{1}\right)$$

$$\cos^2\alpha - \sin^2\alpha - 2\cos^2\alpha$$

$$-\cos^2\alpha - \sin^2\alpha = -1$$

$$\cos^2\alpha + \sin^2\alpha = 1$$

$$-b \pm \sqrt{b^2 - 4ac} \over 2a$$

$$x^2 - 3x + 2 \leq 0$$

$$3 \pm \sqrt{9 - 8} \over 2$$

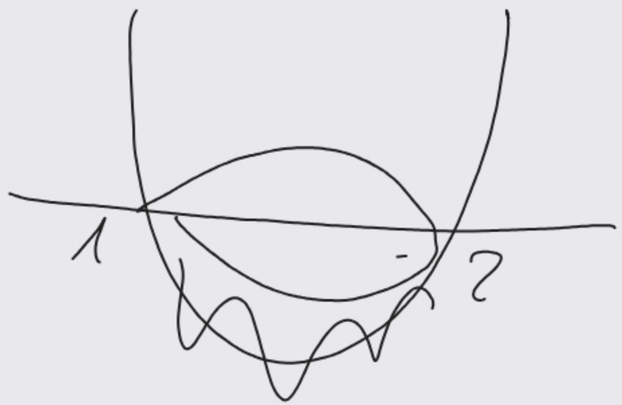
$$3 \pm \sqrt{1} \over 2$$

$$3 \pm 1 \over 2$$

$$4 \over 2 = 2$$

$$2 \over 2 = 1$$

$$x > 2 \cup x < 1$$



$$x > 1 \cup x < 2$$

$$1 < x < 2$$