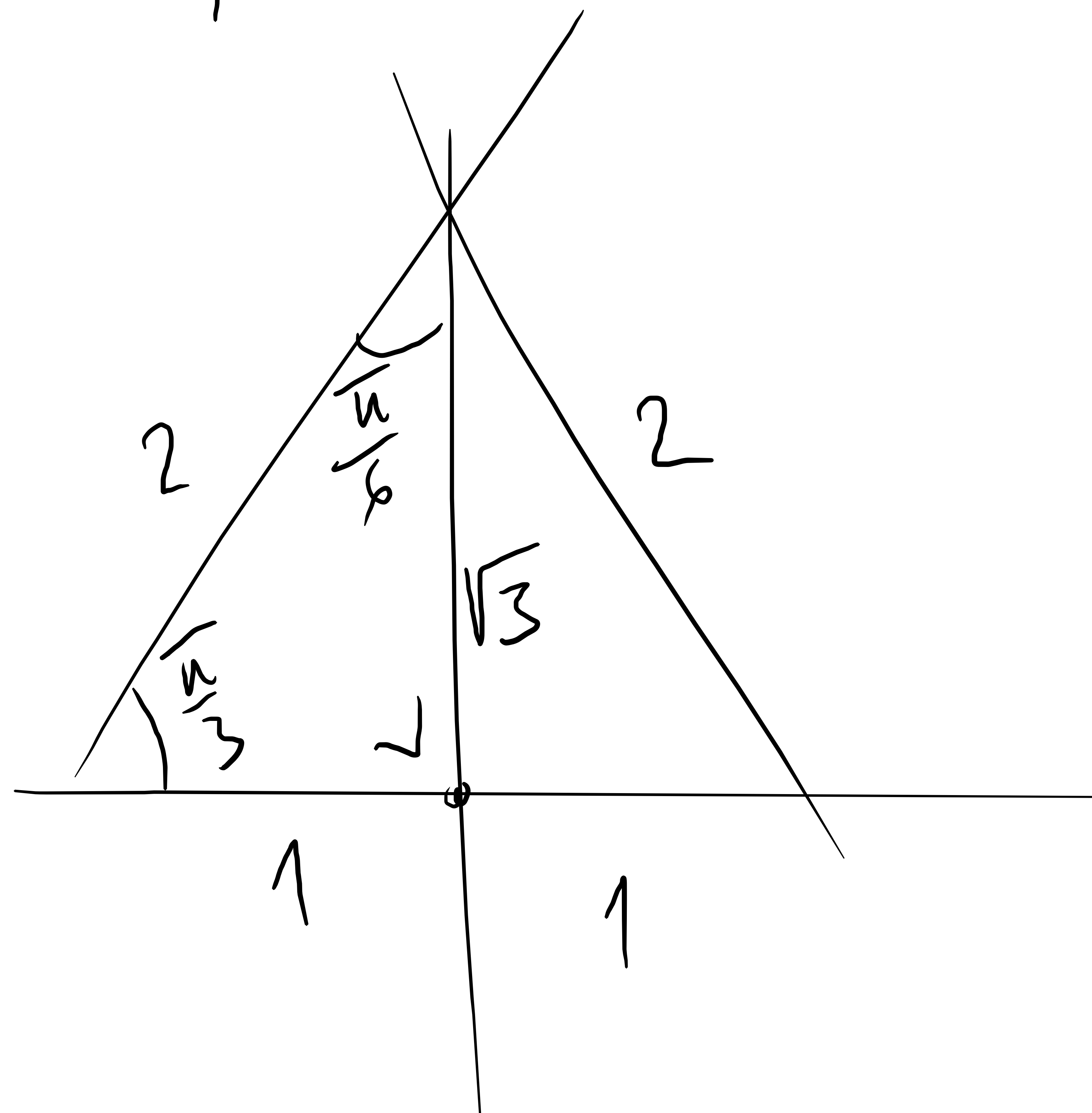




$$\sin \frac{\pi}{4} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

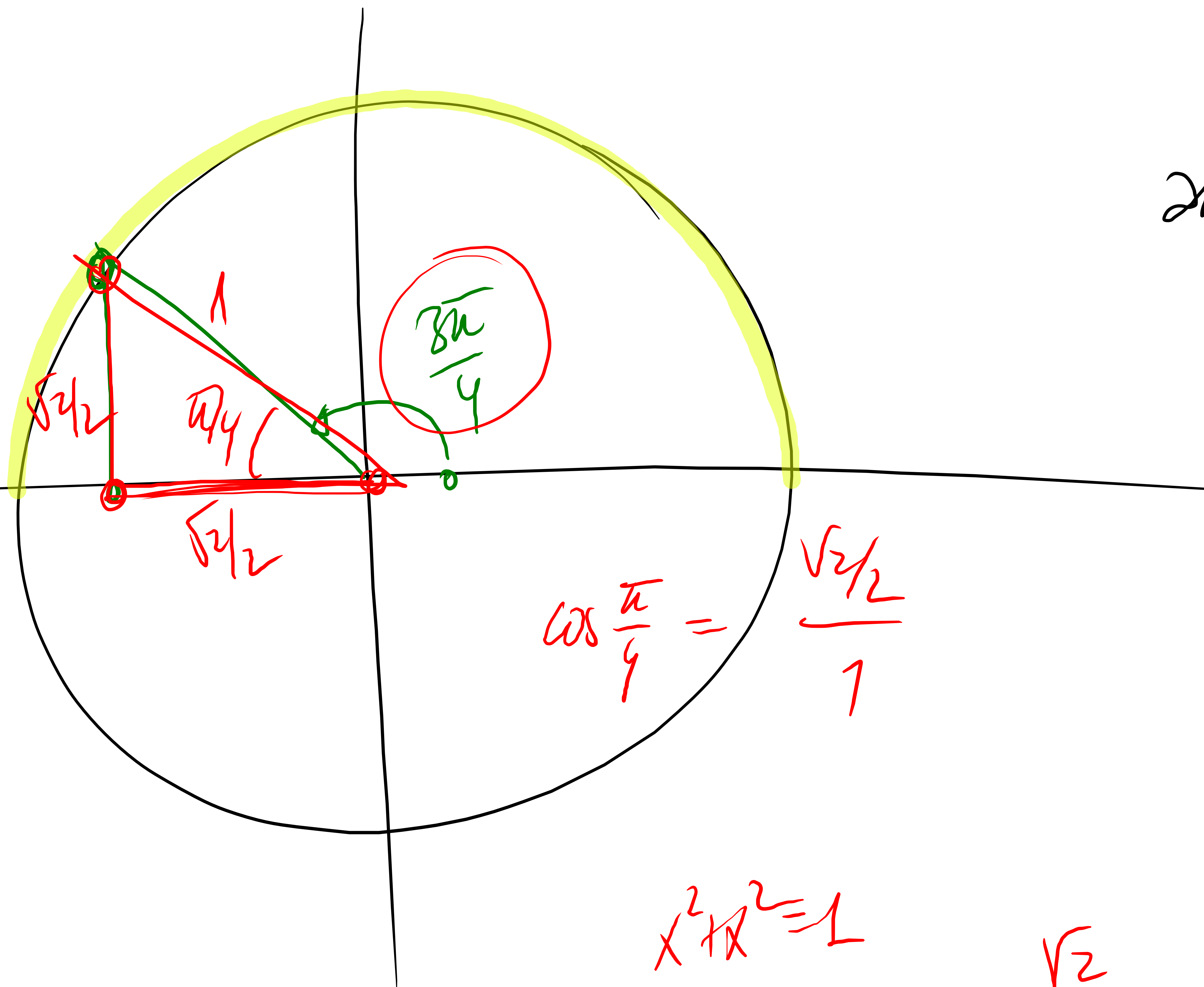
$$\tan \frac{\pi}{4} = 1$$

$$\cos \frac{\pi}{4} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$



$$\cos \frac{\pi}{3} = \frac{1}{2}$$

$$\arccos: [-1, 1] \rightarrow [0, \pi]$$

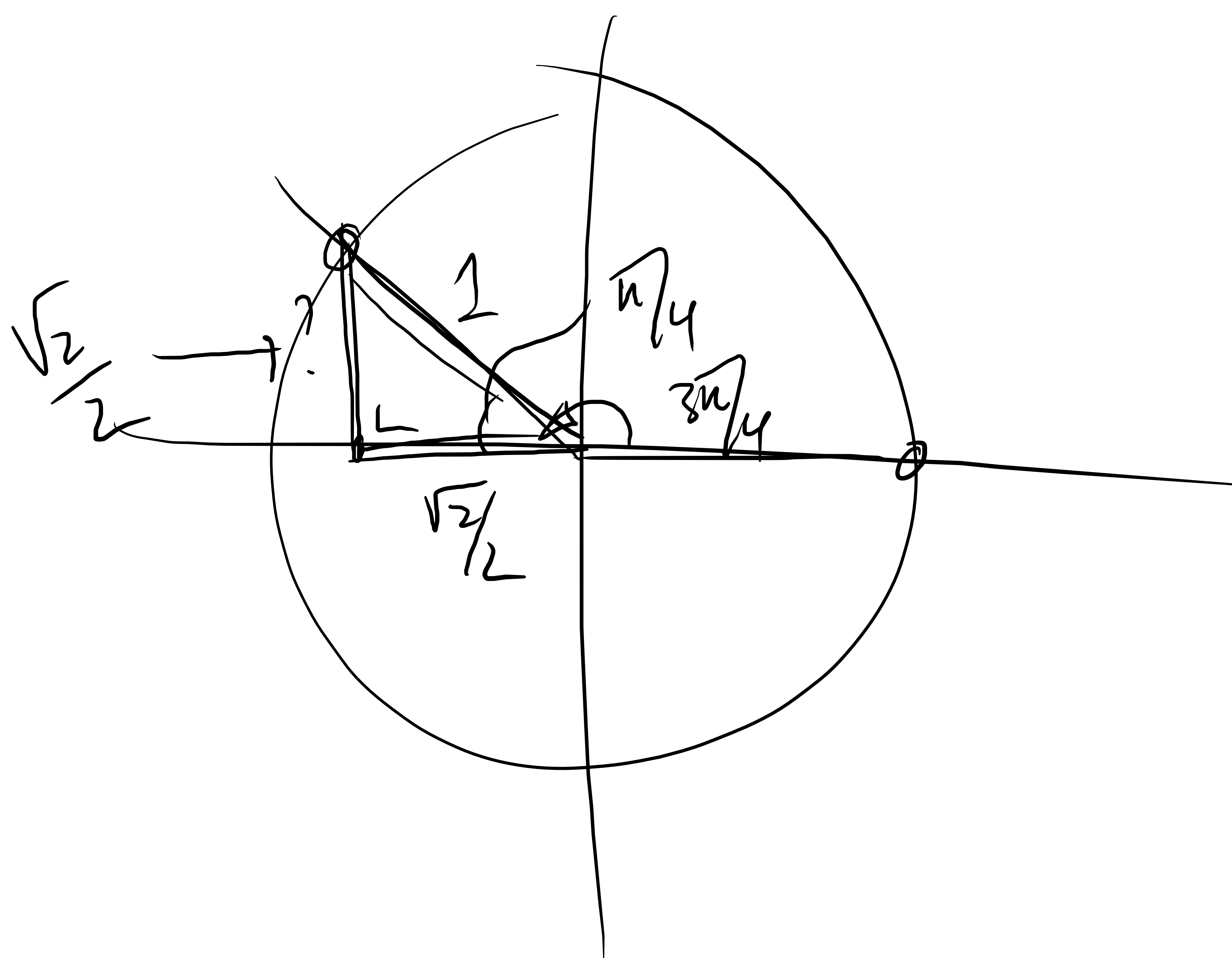


$$\cos \frac{\pi}{4} = \frac{\sqrt{2}/2}{1}$$

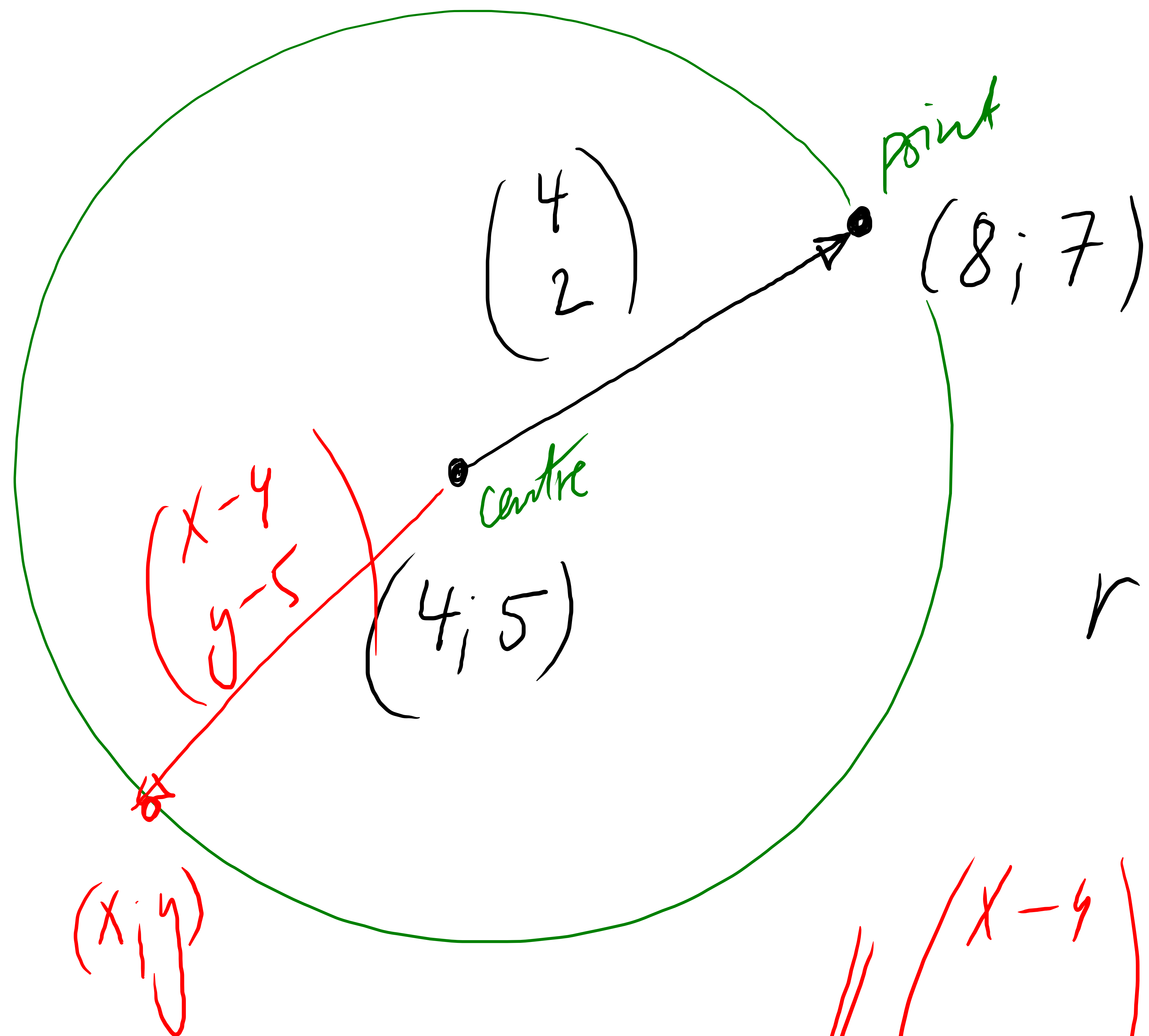
$$\arccos \left(-\frac{\sqrt{2}}{2} \right)$$

$$x^2 + y^2 = 1$$

$$x = \pm \frac{1}{\sqrt{2}} = \pm \frac{\sqrt{2}}{2}$$



$$\sqrt{1^2 - \frac{2}{4}} = \sqrt{1 - \frac{1}{2}} = \sqrt{\frac{1}{2}} = \frac{\sqrt{2}}{2}$$



$$r = \left\| \begin{pmatrix} 4 \\ 2 \end{pmatrix} \right\| = \sqrt{20}$$

$$\left\| \begin{pmatrix} x-4 \\ y-5 \end{pmatrix} \right\| = \sqrt{20}$$

$$\sqrt{(x-4)^2 + (y-5)^2} = \sqrt{20}$$

conique

$$(x-4)^2 + (y-5)^2 = 20$$

$$x^2 - 3x + y^2 + 2y = 8$$

$$C(1.5; 1)$$

$$r = \sqrt{\frac{45}{4}} = \frac{3\sqrt{5}}{2}$$

$$A^2 - 2AB + B^2 = (A - B)^2$$

$$\left[x^2 - 2 \cdot x \cdot \frac{3}{2} + \frac{9}{4} \right] - \frac{9}{4} + \left[y^2 - 2y \cdot 1 + 1 \right] - 1 = 8$$

$$\left(x - \frac{3}{2} \right)^2 + (y - 1)^2 = 8 + 1 + \frac{9}{4} = \frac{45}{4}$$

$$80x^2 + 80y^2 - 120x + 80y + 17 = 0$$

$$x^2 + y^2 - \frac{3}{2}x + y = -\frac{17}{80}$$

$$x^2 - 2 \cdot x \cdot \frac{3}{4} + y^2 + 2y \cdot \frac{1}{2} = -\frac{17}{80}$$

$$\left(x - \frac{3}{4}\right)^2 + \left(y + \frac{1}{2}\right)^2 = -\frac{17}{80} + \frac{9}{16} + \frac{1}{4}$$

$$\left(x - \frac{3}{4}\right)^2 + \left(y + \frac{1}{2}\right)^2 = -\frac{17}{80} + \frac{45}{80} + \frac{20}{80} = \frac{48}{80} = \frac{3}{5}$$