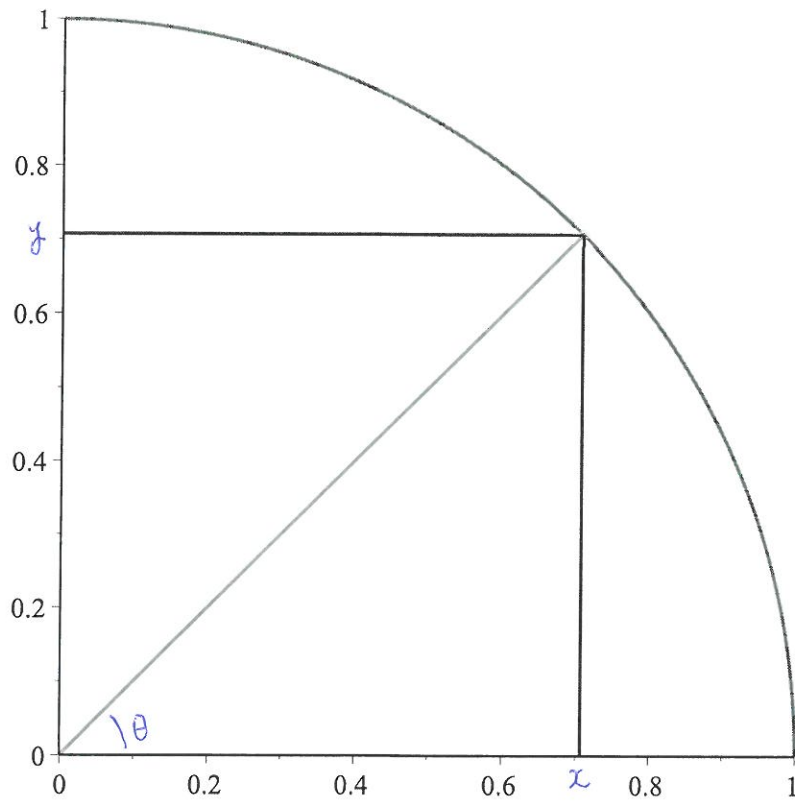


$$\theta = 60^\circ$$

$$x = \frac{1}{2} = 0.5.$$

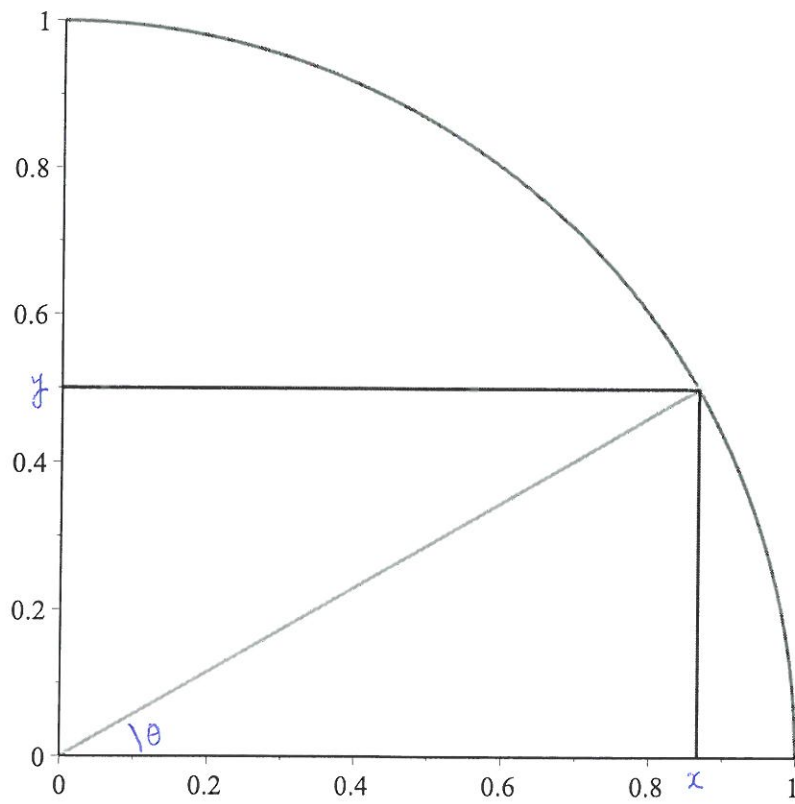
$$y = \frac{\sqrt{3}}{2} = 0.8660254040 \dots$$



$$\theta = 45^\circ$$

$$x = \frac{\sqrt{2}}{2} = \frac{1}{\sqrt{2}} = 0.7071067810 \dots$$

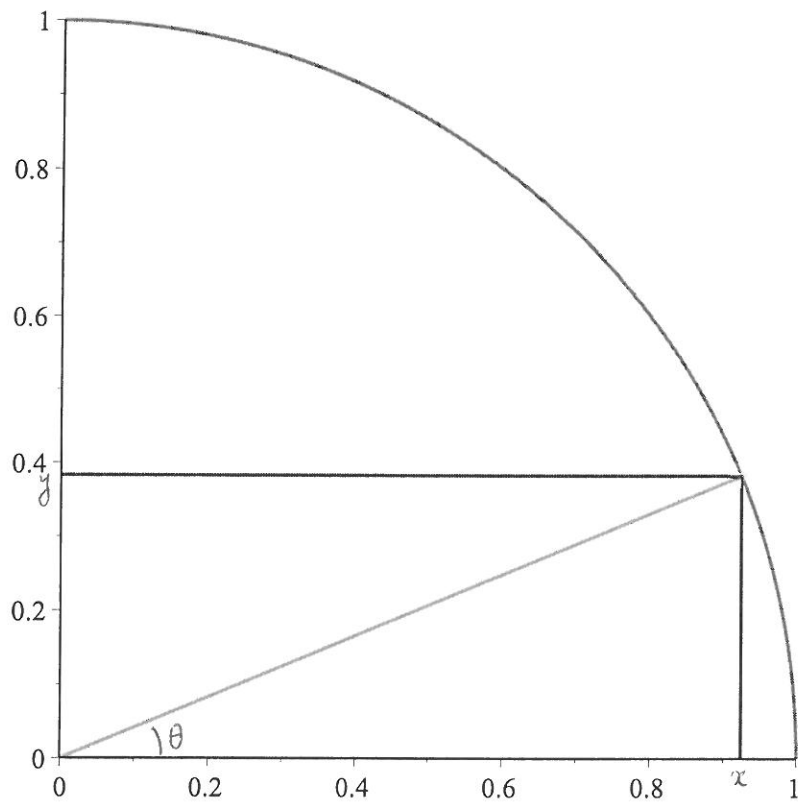
$$y = \frac{\sqrt{2}}{2} = \frac{1}{\sqrt{2}} = 0.7071067810 \dots$$



$$\theta = 30^\circ$$

$$x = \frac{\sqrt{3}}{2} = 0.8660254040 \dots$$

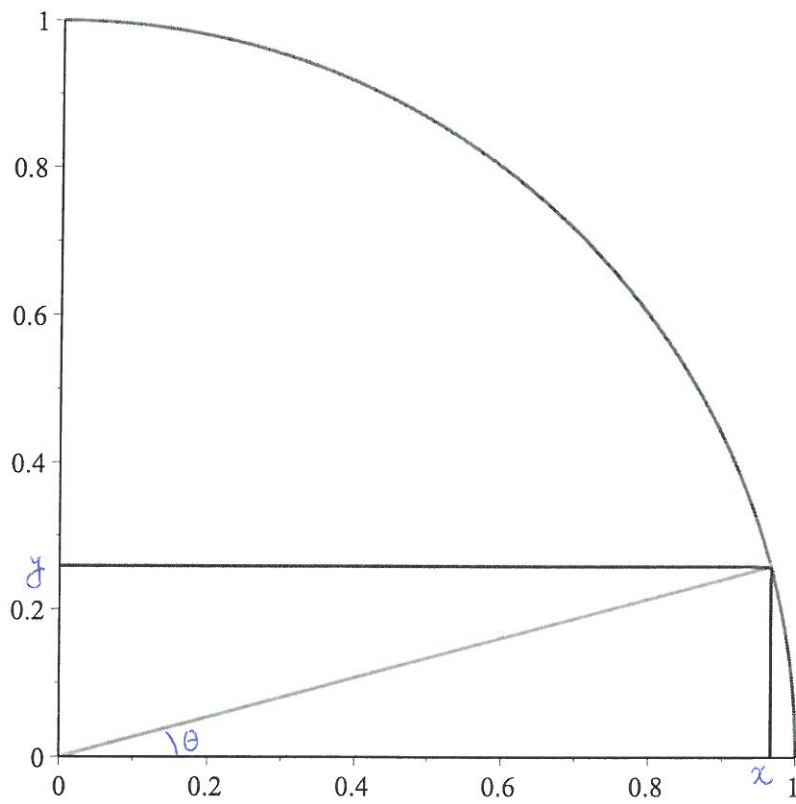
$$y = \frac{1}{2} = 0.5.$$



$$\theta = 22.5^\circ = \left(\frac{360}{16} \right)^\circ$$

$$x = \frac{\sqrt{2 + \sqrt{2}}}{2} = 0.9238795325 \dots$$

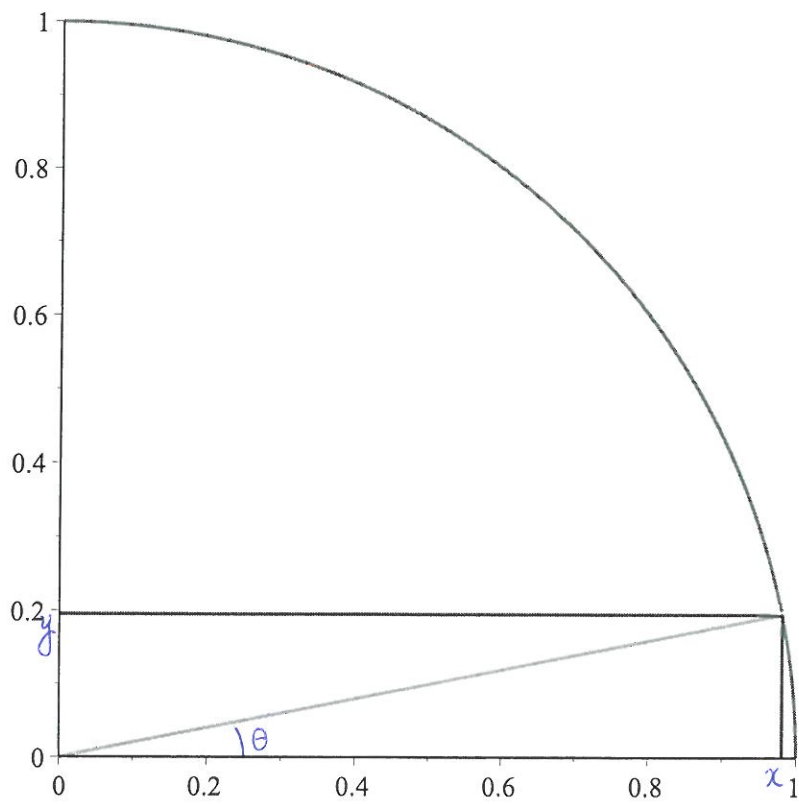
$$y = \frac{\sqrt{2 - \sqrt{2}}}{2} = 0.3826834325 \dots$$



$$\theta = 15^\circ = \left(\frac{360}{24} \right)^\circ$$

$$x = \frac{\sqrt{2 + \sqrt{3}}}{2} = 0.9659258263 \dots$$

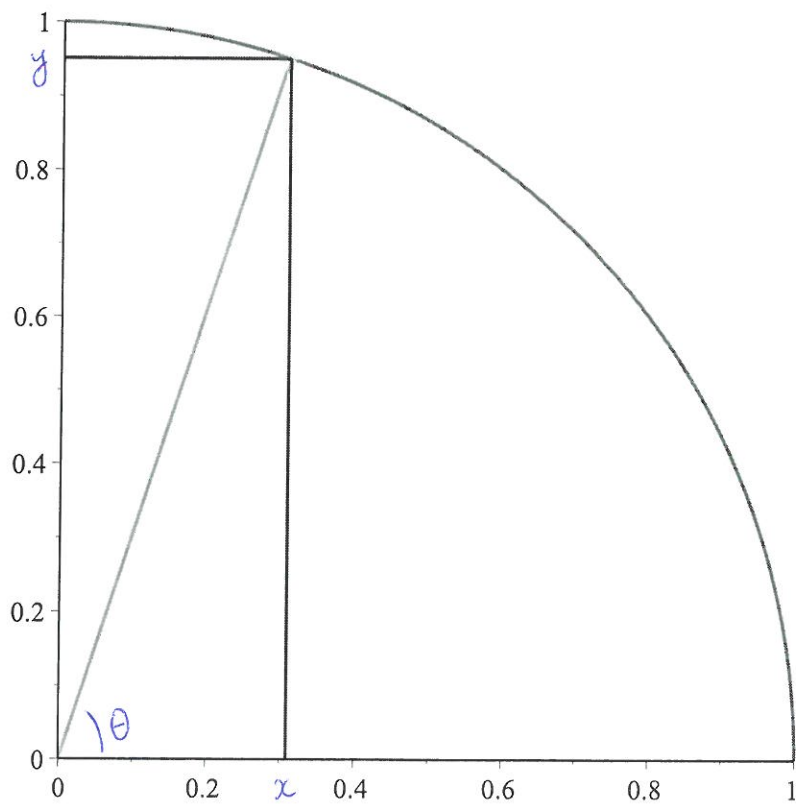
$$y = \frac{\sqrt{2 - \sqrt{3}}}{2} = 0.2588190453 \dots$$



$$\theta = 11.25^\circ = \left(\frac{360}{32} \right)^\circ$$

$$x = \frac{\sqrt{2 + \sqrt{2 + \sqrt{2}}}}{2} = 0.9807852805 \dots$$

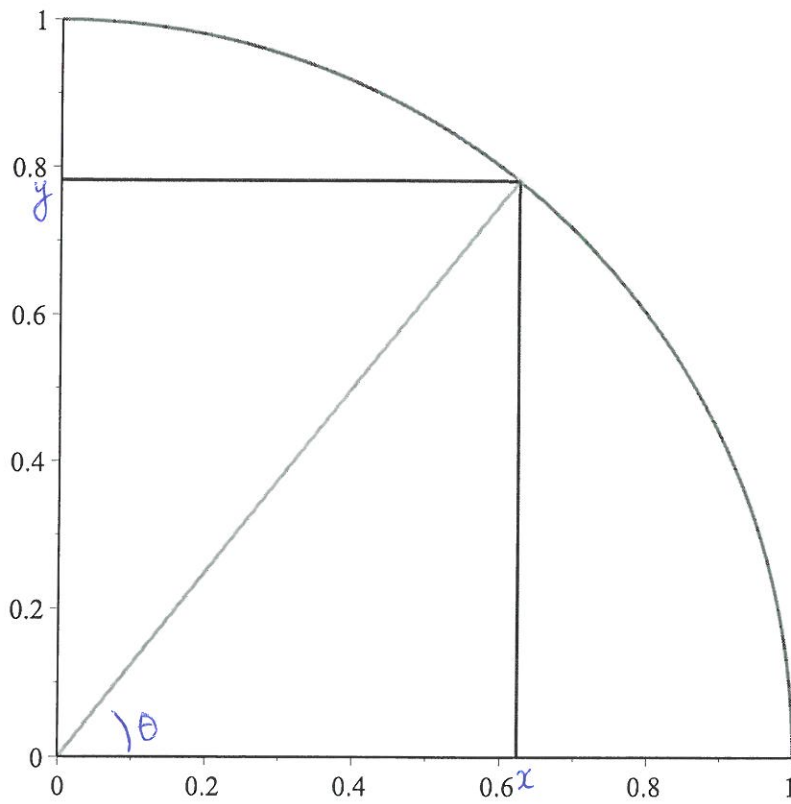
$$y = \frac{\sqrt{2 - \sqrt{2 + \sqrt{2}}}}{2} = 0.1950903220 \dots$$



$$\theta = 72^\circ = \left(\frac{360}{5} \right)^\circ$$

$$x = \frac{-1 + \sqrt{5}}{4} = 0.3090169942 \dots$$

$$y = \frac{\sqrt{10 + 2 \cdot \sqrt{5}}}{4} = 0.9510565162 \dots$$



$$\theta = \left(\frac{360}{7} \right)^\circ$$

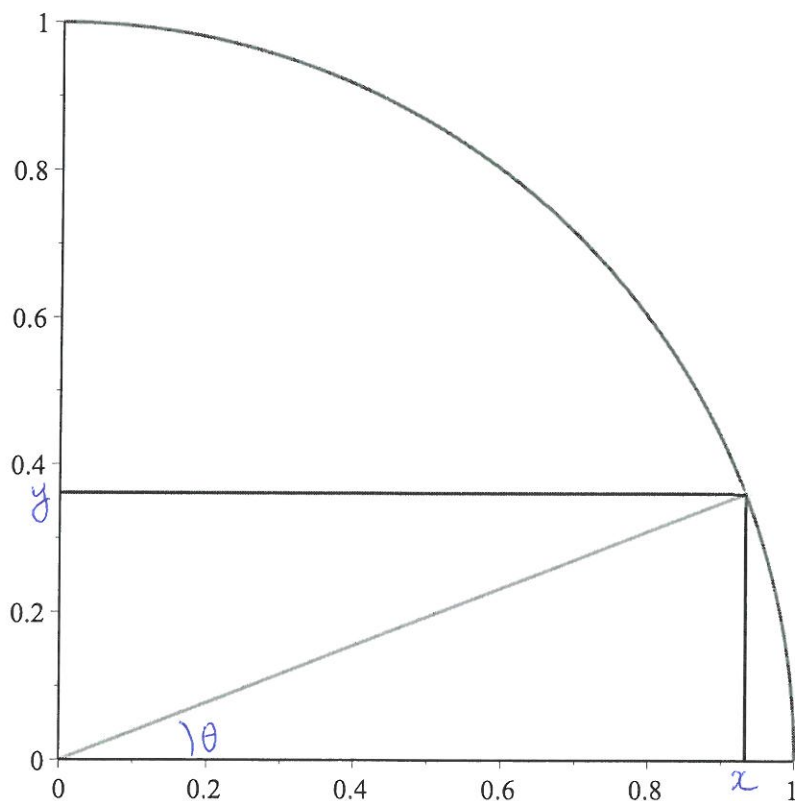
$$x = \frac{-1 + \sqrt[3]{\frac{7}{2}} \cdot (\sqrt[3]{1 + \sqrt{-27}} + \sqrt[3]{1 - \sqrt{-27}})}{6}$$

$$= 0.6234898018 \dots$$

y

$$= \frac{\sqrt{7} + \sqrt[6]{\frac{7}{4}} \cdot \left(\frac{-1 - \sqrt{-3}}{2} \cdot \sqrt[3]{-13 + \sqrt{-27}} + \frac{-1 + \sqrt{-3}}{2} \cdot \sqrt[3]{-13 - \sqrt{-27}} \right)}{6}$$

$$= 0.7818314827 \dots$$



$$\theta = \left(\frac{360}{17} \right)^\circ$$

$$x = \frac{-\left(1 - \sqrt{17} - \sqrt{34 - 2\sqrt{17}}\right) + 2\sqrt{17 + 3\sqrt{17} - \sqrt{34 - 2\sqrt{17}} - 2\sqrt{34 + 2\sqrt{17}}}}{16}$$

$$= 0.9324722295 \dots$$

$$y = \frac{1}{16}$$

$$\left(136 - 8\sqrt{17} + (6 - 2\sqrt{17})\sqrt{34 - 2\sqrt{17}} + 8\sqrt{34 + 2\sqrt{17}} + 4\left(1 - \sqrt{17} - \sqrt{34 - 2\sqrt{17}}\right)\sqrt{17 + 3\sqrt{17} - \sqrt{34 - 2\sqrt{17}} - 2\sqrt{34 + 2\sqrt{17}}} \right)^{1/2}$$

$$= 0.3612416662 \dots$$