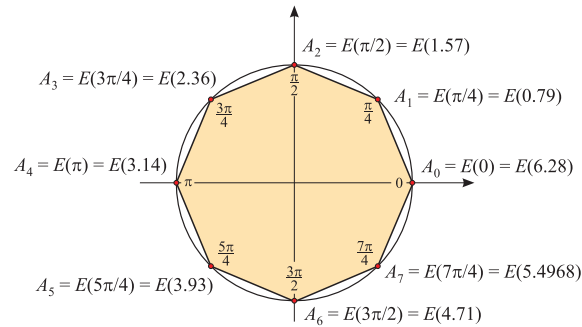


Zadatak 5. Nacrtaj pravilni osmerokut upisan brojevnoj kružnici i s vrhovima u točkama $A_k = E\left(k \cdot \frac{\pi}{4}\right)$, $k = 0, 1, 2, \dots, 7$. Na kojem luku što je određen dvama susjednim vrhovima tog osmerokuta leže točke: $E(1)$, $E(-2)$, $E\left(\frac{33\pi}{4}\right)$, $E(-\sqrt{22})$, $E(111)$, $E(-10.22)$?

Rješenje.



$$E(1) \in \widehat{A_1 A_2};$$

$$E(-2) = E(-2\pi + 4.28) = E(4.28) \in \widehat{A_5 A_6};$$

$$E\left(\frac{33\pi}{4}\right) = E\left(4 \cdot 2\pi + \frac{\pi}{4}\right) = E\left(\frac{\pi}{4}\right) = A_1;$$

$$E(-\sqrt{22}) = E(-4.69) = E(-2\pi + 1.59) = E(1.59) \in \widehat{A_2 A_3};$$

$$E(111) = E(17 \cdot 2\pi + 4.19) = E(4.19) \in \widehat{A_5 A_6};$$

$$E(-10.22) = E(-2 \cdot 2\pi + 2.35) \in \widehat{A_2 A_3}.$$