

**Zadatak 3.** Odredi cijeli broj  $k$  tako da je  $k \cdot \frac{\pi}{2} < t < (k+1) \cdot \frac{\pi}{2}$ , za sljedeće točke  $E(t)$ :  $E(10)$ ,  $E(8)$ ,  $E(2)$ ,  $E(3.3)$ ,  $E(\sqrt{33})$ . Smjesti sve te točke na brojevu kružnicu.

**Rješenje.**

$$k \cdot \frac{\pi}{2} < t < (k+1) \cdot \frac{\pi}{2} \quad / : \frac{\pi}{2}$$

$$k < \frac{t}{\frac{\pi}{2}} < k+1$$

$$k < \frac{2 \cdot t}{\pi} < k+1$$

$$E(10) \quad k < \frac{2 \cdot 10}{\pi} < k+1$$

$$k < 6.36 < k+1 \quad \implies k = 6$$

$$E(8) \quad k < \frac{2 \cdot 8}{\pi} < k+1$$

$$k < 5.09 < k+1 \quad \implies k = 5$$

$$E(2) \quad k < \frac{2 \cdot 2}{\pi} < k+1$$

$$k < 1.27 < k+1 \quad \implies k = 1$$

$$E(3.3) \quad k < \frac{2 \cdot 3.3}{\pi} < k+1$$

$$k < 2.1 < k+1 \quad \implies k = 2$$

$$E(\sqrt{33}) \quad k < \frac{2 \cdot \sqrt{33}}{\pi} < k+1$$

$$k < 3.66 < k+1 \quad \implies k = 3$$