

**Zadatak 10.** Prikaži na brojevnoj kružnici skup rješenja sustava nejednadžbi:

$$1) \begin{cases} 2 \sin x - 1 \leq 0, \\ 2 \cos x + 1 \geq 0; \end{cases}$$

$$2) \begin{cases} 3 \sin x + 2 \geq 0, \\ 4 \cos x - 3 \leq 0. \end{cases}$$

*Rješenje.*

$$1) \begin{aligned} 2 \sin x - 1 &\leq 0 \\ 2 \cos x + 1 &\geq 0 \end{aligned}$$

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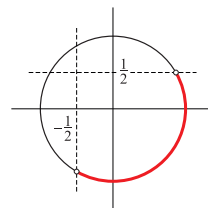

$$2 \sin x \leq 1 \quad / : 2$$

$$2 \cos x \geq -1 \quad / : 2$$

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$$\sin x \leq \frac{1}{2}$$

$$\cos x \geq -\frac{1}{2}$$



$$2) \begin{aligned} 3 \sin x + 2 &\geq 0 \\ 4 \cos x - 3 &\leq 0 \end{aligned}$$

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$$3 \sin x \geq -2 \quad / : 3$$

$$4 \cos x \leq 3 \quad / : 4$$

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$$\sin x \geq -\frac{2}{3}$$

$$\cos x \leq \frac{3}{4}$$

