

**Zadatak 11.** Odredi temeljni period funkcije  $f(x) = \sin \frac{3x}{4} - 2 \cos \frac{2x}{3}$ .

**Rješenje.**

$$f(x) = \underbrace{\sin \frac{3x}{4}}_{g(x)} - \underbrace{2 \cos \frac{2x}{3}}_{h(x)}$$
$$\omega_g = \frac{3}{4}, P_g = \frac{2\pi}{\omega_g} = \frac{2\pi}{\frac{3}{4}} = \frac{8\pi}{3};$$
$$\omega_h = \frac{2}{3}, P_h = \frac{2\pi}{\omega_h} = \frac{2\pi}{\frac{2}{3}} = \frac{6\pi}{2} = 3\pi;$$
$$P_f = V(P_g, P_h) = V\left(\frac{8\pi}{3}, 3\pi\right) = 24\pi$$