

Zadatak 8. Provjeri:

1) broj 2π period je funkcije

$$f(x) = \cos x + \cos 2x;$$

2) broj 12π period je funkcije

$$f(x) = \cos \frac{x}{2} + \cos \frac{x}{3};$$

Rješenje.

$$1) P_1 = 2\pi; \omega_2 = 2, P_2 = \frac{2\pi}{\omega_2} = \frac{2\pi}{2} = \pi; P = V(P_1, P_2) = 2\pi;$$

$$2) \omega_1 = \frac{1}{2}, P_1 = \frac{2\pi}{\omega_1} = \frac{2\pi}{\frac{1}{2}} = 4\pi; \omega_2 = \frac{1}{3}, P_2 = \frac{2\pi}{\omega_2} = \frac{2\pi}{\frac{1}{3}} = 6\pi;$$

$$P = V(P_1, P_2) = 12\pi;$$