

Zadatak 5. Ako je $f(x) = x^3 - 1$, $g(x) = x^3 + 1$, koliko je $f(a+1) - g(a-1)$?

Rješenje. $f(x) = x^3 - 1$, $g(x) = x^3 + 1$,

$$\begin{aligned} f(a+1) - g(a-1) &= (a+1)^3 - 1 - (a-1)^3 - 1 \\ &= a^3 + 3a^2 + 3a + 1 - 1 - a^3 + 3a^2 - 3a + 1 - 1 = 6a^2. \end{aligned}$$