

Zadatak 6. Ako je $f(x) = x^2 - 1$, $g(x) = (x-1)^2$, koliko je $(a-1)f(a) - (a+1)g(-a)$?

Rješenje. $f(x) = x^2 - 1$, $g(x) = (x-1)^2$,

$$\begin{aligned}(a-1)f(a) - (a+1)g(-a) &= (a-1)(a^2 - 1) - (a+1)(a+1)^2 = (a+1)[(a-1)^2 - (a+1)^2] \\ &= (a+1)(a-1-a-1)(a-1+a+1) = (a+1)(-4a) = -4a(a+1).\end{aligned}$$