Zadatak 9. Ako je $f(x) = \dfrac{x(x+1)(x-2)(x-3)}{(x-1)(x+2)}$, koliko je $f(1-\sqrt{3})$?

Rješenje. $f(x) = \dfrac{x(x+1)(x-2)(x-3)}{(x-1)(x+2)}$,

$$f(1-\sqrt{3}) = \frac{(1-\sqrt{3})(2-\sqrt{3})(-1-\sqrt{3})(-2-\sqrt{3})}{-\sqrt{3}(3-\sqrt{3})} = \frac{(1-\sqrt{3})(1+\sqrt{3})(2-\sqrt{3})(2+\sqrt{3})}{3(1-\sqrt{3})}$$

$$= \frac{1+\sqrt{3}}{3}(4-3) = \frac{1+\sqrt{3}}{3}.$$