Izračunaj odvod $F'(x)$, kjer je $F(x) = \sqrt{x^2+1}$. $F(x) = (f \circ g)(x) = f(g(x))$, kjer $f(u) = \sqrt{u}$ in $g(x) = x^2 + 1$.

$$F'(x) = f'(g(x))g'(x)$$

$f'(u) = \dfrac{1}{2\sqrt{u}}$, in $g'(x) = 2x$. Torej

$$F'(x) = f'(g(x))g'(x) == \frac{1}{2\sqrt{x^2+1}}2x = \frac{x}{\sqrt{x^2+1}}.$$