Zadatak 18. Ako je $f(2x) = e^{-x}$, odredi $(f^{-1})'(x)$.

Rješenje. $2x = t \implies x = \dfrac{t}{2} \implies f(t) = e^{-\frac{t}{2}} \implies f(x) = e^{-\frac{x}{2}}$,

$x = e^{-\frac{y}{2}} \implies -\dfrac{y}{2} = \ln x \implies -y = 2\ln x \implies f^{-1}(x) = -2\ln x$,

$(f^{-1})'(x) = -\dfrac{2}{x}$.