

Integration by Substitution (II)

6. $\int \tan x \, dx$

7. $\int \frac{\sin(2x)}{\sin^2 x} \, dx$

8. $\int \frac{\tan^4 x - 1}{\tan x - 1} \, dx$, provided $\frac{\pi}{4} < x < \frac{\pi}{2}$