

Integration by Substitution (II)

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

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

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