Math 32B Integration Review "Quiz"

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Evaluate the following integrals:

1. $\displaystyle\int \tan x \; dx$

2. $\displaystyle\int \frac{1}{x} dx$

3. $\displaystyle\int \frac{1}{4 - x^2} dx$

4. $\displaystyle\int \frac{1}{x^2 + 1} dx$

5. $\int x \cos x \ dx$

6. $\int \left(\sin x - e^{3x} + \dfrac{1}{x^3} + 5x^2 \right) dx$

7. $\int \sin^2 x dx$

8. $\int \cos^2 x dx$