Optimization and integrals

anti – derivatives

Evaluate the following: Indefinite integrals

$$1.\int x^2 dx$$

$$2.\int (x^2 + 4) dx$$

$$3. \int x Cosx^2 dx$$

$$4.\int \sqrt{e^x} dx$$

$$5.\int \frac{2x}{x^2} dx$$

$$6.\int cosx(\sin^2 x) dx$$

$$7.\int tanx dx$$

Example 1 memo: $\frac{x^3}{3} + c$