

## Math 220 - Calculus f. Business and Management - Worksheet 35

### Worksheet 35 - Definite Integrals

Solve these definite integrals by use of the power rule

1:  $\int_1^4 t^3 dt$

2:  $\int_1^6 5^{-1/2} dx$

3:  $\int_1^3 \frac{1}{x} dx$

4:  $\int_{-2}^8 4e^{3t} dt$

Solve these definite integrals using substitution

5:  $\int_2^5 x \cdot \sqrt[3]{x^2 + 4} dx$

6:  $\int_2^5 3te^{t^2+1} dt$

7:  $\int_1^4 \frac{\ln(x)}{x} dx$

Solve these definite integrals with partial integration

8:  $\int_2^5 3te^{5t} dt$

9:  $\int_1^4 \frac{\ln(x)}{x^3} dx$