

Derivative & Integral Formula Sheet. Integration Table Handout for 28.11

28.6 Inverse Trig Forms p.861: 3,5,7,13,17,19

$$\int \frac{du}{\sqrt{a^2-u^2}} = \sin^{-1} \frac{u}{a} + c \quad \int \frac{du}{a^2+u^2} = \frac{1}{a} \tan^{-1} \frac{u}{a} + c$$

28.7 Integration by Parts p.865: 3,5,7,10,13,14

$$\int u dv = uv - \int v du$$

28.11 Integration using Tables (Tables provided)

p.877: 9-44

29.1 Functions of Two Variables.

Constructing Function. p.886: 3,5,7

Evaluating Function Values p.887: 9,11,13,15

29.3 Partial Derivatives: p.897: 3,5,9,11,13,15,21 First Partial
29.31 Second Partial Derivatives

29.4 Double Integrals: p.901: 3,5,7,9,11,15

Review p.902-903: $\underbrace{1,3,4}_{29.1}$ $\underbrace{9,11,17,19}_{29.3}$ $\underbrace{23,25,29}_{29.4}$