

M1B/Schoenbrun Section 5.6 Integration by Parts

Evaluate using integration by parts

1)  $\int \ln(x+1) dx$

2)  $\int x e^{-x} dx$

3)  $\int x \ln(x+1) dx$

$$4) \int \frac{x}{\sqrt{1-x^2}} dx$$

$$5) \int \frac{1}{x(\ln x)^3} dx$$

$$6) \int_0^1 (x \ln x)^2 dx$$