

Integration by Parts: 6.3 Skills Review

1.  $\int x e^x dx$

2.  $\int x \cos x dx$

3.  $\int \tan^{-1} x dx$

4.  $\int x \sec^2 \pi x dx$

5.  $\int \sin(\ln x) dx$

6.  $\int x(x+2)^8 dx$

7.  $\int (\ln x)^2 dx$

8.  $\int x e^{2x} dx$

9.  $\int x^3 e^{2x} dx$

10.  $\int e^{2x} \cos x dx$

11.  $\int \sqrt{x} \ln x dx$

12.  $\int \frac{x^3}{\sqrt{1+x^2}} dx$