

1.  $\int \cos^{-1} x \, dx$

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

3.  $\int x^3 \ln(x) \, dx$

4.  $\int \sin^3 x \, dx$

5.  $\int x^3 e^x \, dx$

6.  $\int (x^2 + 3x - 1) \ln x \, dx$

7.  $\int \sin^{-1} x \, dx$

8.  $\int x \cos(3x) \, dx$

9.  $\int \frac{\ln(3x)}{x^2} \, dx$

10.  $\int \tan^{-1} \left( \frac{1}{x} \right) \, dx$

11.  $\int x \sin(3 - 8x) \, dx$

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