

Practice Integrals – Math 307

1. $\int x \sin(3x) \, dx$

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

3. $\int \sin x \cos x \, dx$

4. $\int \cos^2 x \, dx$

5. $\int \frac{1}{x \cdot (\ln x)^2} \, dx$

6. $\int e^{(3-\cos x)} \sin x \, dx$

7. $\int e^{-st} \cos 5t \, dt$ (s is a constant)