# Exercise Session 9

Evaluate the following integrals:

1. $\int (x+4)^3 dx$

2. $\int \frac{2x-1}{x^2-x-6} dx$

3. $\int \frac{3x+11}{x^2-x-6} dx$

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

5. $\int \frac{2}{x-3\sqrt{x+10}} dx$

6. $\int e^{-\lambda x} dx$

7. $\int x e^{-\lambda x} dx$

8. $\int e^x \cos(x) dx$

9. $\int x^2 \sin(4x) dx$

10. $\int x \log x dx$