

Math 1B Discussion Problems 31 Jan

1. Evaluate the following integrals.

(a) $\int \frac{x+4}{x^2+5x+6} dx$

(b) $\int \frac{1}{(x^2-1)^2} dx$

(c) $\int \frac{3x^2+x+4}{x^3+x} dx$

(d) $\int \frac{9x^3-3x+1}{x^3-x^2} dx$

(e) $\int \frac{1}{x\sqrt{x+9}} dx$

(f) $\int \frac{1}{1+e^x} dx$