

MATH 16B - WORKSHEET 4

1 Evaluate the following integrals:

i $\int \frac{1}{\sqrt{2x+1}} dx$

ii $\int \frac{\sin(\ln x)}{x} dx$

iii $\int \frac{\sin x}{(2 + \cos x)^5} dx$

iv $\int \frac{(\ln x)^5}{x} dx$

$$\mathbf{v} \int \frac{x+2}{e^{2x}} dx$$

$$\mathbf{vi} \int \frac{x+4}{2x+5} dx$$

$$\mathbf{vii} \int (\ln x)^2 dx$$

$$\mathbf{viii} \int \frac{x^3}{(x^2+2)^2} dx$$