

Math 182 Honors Quiz 4 Version A

1. Solve the following definite and indefinite integrals:

(i) $\int_0^3 \sqrt{x+1} dx$

(ii) $\int \frac{1}{x^2-4} dx$

(iii) $\int \arctan \sqrt{x} dx$

Math 182 Honors Quiz 4 Version A

2. State Taylor's formula with remainder term expanded about $a = 0$ for the functions:

(i) e^x

(ii) $\sin x$

(iii) $\ln(1 + x)$

(iv) $\arctan x$