



EXAM II REVIEW

TOPICS TO KNOW:

- Convergence Tests: Alternating Series Test, Ratio Test, Root Test
- Basic properties of $\exp(x)$
- One-to-one functions, inverse functions
- Basic properties of $\ln(x)$, and its interpretation as inverse to $\exp(x)$
- Inverse trigonometric functions: definition, derivatives
- basics of power series: definition, centre, coefficients
- interval of convergence, radius of convergence
- power series representations of functions (centred at c)
- properties of functions defined by power series: differentiability, integrability
- ‘changing the centre’
- Taylor Series
- Taylor polynomials