

WORKSHEETS: MATH 162



Worksheet I: review

Worksheet II: volume

Worksheet III: washers vs shells

Worksheet IV: parameterized curves

Worksheet V: arc length, surface area, work

Worksheet VI: integration by parts

Worksheet VII: review of hyperbolic functions

Worksheet VIII: *little o* and *big O*

Worksheet IX: improper integrals

Worksheet X: numerical sequences

Worksheet XI: numerical series, part I

Worksheet XII: integral test, ratio test, root test

Worksheet XIII: absolute and conditional convergence

Worksheet XIV: *brief* introduction to probability

Worksheet XV: power series

Worksheet XVI: operations on power series

Worksheet XVII: Taylor polynomials, Taylor series

Worksheet XVIII: Euler's formula, complex power series

Worksheet XIX: substitution, a review

Worksheet XX: integration of trig functions; trig substitutions

Worksheet XXI: partial fraction decomposition



Work! God wills it. That, it seems to me, is clear.

- Gustave Flaubert (letter to Louise Colet, 1845)

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