

MAC 2311 EXAM II TOPICS (9th Ed.)

- 2.1 ① slopes of secant and tangent lines, average and instantaneous velocities (or rates of change) (15)
- 2.2 ② Derivative from the definition (the one with "h") (10)
- 2.2 ③ Non-differentiability (5)
- 2.3, 2.4 ④ Power rule, product rule, quotient rule, higher derivatives. (15)
- 2.5 ⑤ Derivatives of trig. functions (10)
- 2.6 ⑥ Chain Rule (15)
- 3.4 ⑦ Related Rates (15)
- 3.5 ⑧ Increments, differentials, local linear approximations, error propagation in applications. (15)

Note: Point values are in parentheses.