

MAC 2311

EXAM I TOPICS (9<sup>th</sup> Ed.)

(Point values are in parentheses)

0.1 ① Functional notation, vertical line test, absolute value function, piecewise-defined functions, domains and ranges. (10)

0.2 ② Operations on functions, composition, symmetry, even and odd functions, graphs of functions, decomposition. (15)

0.4 ③ Inverse functions; inverse trig. functions (10)

1.1 ④ Graphical limits (10)

1.2 ⑤ Computing limits (15)

1.3 ⑥ Limits at infinity (10)

1.5 ⑦ Continuity; Intermediate Value Theorem, estimating solutions of polynomial equations (15)

1.6 ⑧ Continuity of trig. and inverse functions, basic trigonometric limit, other trig. limits (15)