

(Point values are in parentheses.)

MAC 1105-EXAM I TOPICS (SU'09) (70pts)

- R2, R4 ① Polynomials (15)
- R5 ② Factoring polynomials (20)
- R7 ③ Rational expressions (20)
- R8 ④ n^{th} roots (radicals) (15)

EXAM II TOPICS (70 pts.)

- R8 ① Rational exponents (15)
- 2.1 ② Distance and midpoint formulas (5)
- 2.2 ③ Graphs, intercepts, symmetry (10)
- 2.3 ④ Slopes, graphing lines, equations of lines (10)
- 2.3 ⑤ Linear word problem (5)
- 2.3 ⑥ Parallel and perpendicular lines (5)
- 2.4 ⑦ Circles (including completing the square) (5)
- 3.1 ⑧ Functional notation, domains, operations (15)

EXAM III TOPICS (65 pts.)

- ① Function handout (online) (15)
- 3.1, 3.3 ② Average rate of change, including
$$\frac{f(x+h) - f(x)}{h}$$
 (5)
- 3.2 ③ Obtaining information about the graph of a function. (10)
- 3.3 ④ Increasing, decreasing, local maxima/minima, even and odd functions. (10)
- 3.4 ⑤ Library of functions, piecewise defined functions (10)
- 3.5 ⑥ Transformations (10)
- 3.6 ⑦ Constructing functions from a verbal description. (5)