

# Final Exam – Wednesday, Dec. 18<sup>th</sup> (9:40-11:40 a.m.)

Chapters 1-9 (9.1-9.5 only): 20 problems or less

**study previous Exams I-IV** & quizzes 1-18...

---

Graph a linear function (straight line) & inequalities

**Slope of a line** ( $m$ ), parallel vs perpendicular

Applications: **%**, uniform motion ( $d = r \times t$ ), **variation**

Function notation,  $f(x)$ ; Domain & Range

Factoring & polynomial\* inequalities

Graph quadratic/exponential/logarithmic functions

Complex numbers: arithmetic & std. ( **$a + bi$** ) form

Simplify/perform arithmetic operations, and solve equations involving linear, polynomial\*, rational, radical, exponential and/or logarithmic expressions

---

\*note: quadratic expressions/equations are polynomial expressions/equations (whose degree = 2)