

QUIZ 2.1, 2.3 on Wed/Thurs 9-5/9-6
• No calculator on QUIZ, no formulas given

Review:

• Write an equation for the linear fnc $f(x)$

Know $\rightarrow m = \frac{y_2 - y_1}{x_2 - x_1}$
 $f(x) = y \rightarrow (x, y)$
 $y - y_1 = m(x - x_1)$
 $f(x) = mx + b$

• Quadratic equations 3 forms

$y = ax^2 + bx + c$ y.int $(0, c)$ Axis $x = \frac{-b}{(2a)}$

$y = a(x - h)^2 + k$ vertex (h, k) Axis $x = h$

$y = a(x - m)(x - n)$ zeros $x = m$ $x = n$

Axis
Vertex
x-intercepts
y-intercepts

Know how to complete the square
to change standard form to vertex form

• Polynomials

• End behavior

$\lim_{x \rightarrow -\infty} f(x) = \underline{\quad}$ $\lim_{x \rightarrow \infty} f(x) = \underline{\quad}$

• Know how to make a rough sketch

• Know how to identify the degree, zeros, multiplicity at each zero, y-intercept, describe end behavior, sketch a graph.

• Know how to write an equation in

Standard form given the zeros.

↑
requires FOILING