

SECTION 1.4 DERIVING QUADRATIC EQUATIONS

i) Find the Q. E. when given two points or roots, one root is double/triple 2nd root
ii) Intersection b/n two parabolas
iii) Perfect Trinomials
iv) For what values of "k" will there be 2roots, 1 root, or no roots

I) DERIVING A QUADRATIC FUNCTION

- When given the roots we can find the equation of the quadratic function by
- Ie: If the roots of a quadratic function are -3 and -2/3, the equation in factored form will be:

• To find the constant "a"

Ex: Find the equation of a parabola with a vertex at (-2,3) and y-intercept at 6.

Math 10/11 Honors Section 1.4 Deriving Quadratic Equations







Practice: For what values of "k" does the equation have a) Two equal roots b)No real roots

 $9x^2 - 2kx + 4 = 0$