## **Quadratic Relations Strand Expectations:**

- 1) determine the basic properties of quadratic relations
- 2) relate transformations of the graph of  $y = x^2$ to the algebraic representation  $y = a(x-h)^2 + k$
- 3) solve quadratic equations and interpret the solutions with respect to the corresponding relations
- 4) solve problems involving quadratic relations

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## **Quadratic Relations Strand Expectations:**

1) determine the basic properties of quadratic relations

\_ drawing parabola

- -> vertex
- -> step pattern
- -> zerocs
- -> direction of opening
- → table of values
  - -> 2 rd differences constant
- -> axis of symmetry
- -> y-werept

2) relate transformations of the graph of  $y = x^2$ to the algebraic representation  $y = a(x-h)^2 + k$ 

a -> scale factor (-> step pattern)
(stretch or compression) -> Vertical reflection

Wtex (h,k)

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3) solve quadratic equations and interpret the solutions with respect to the corresponding relations

- finding zeros from standard, factored or vertex form

- factoring (simple & complex trinomails, expand & simplify common factors, perfect squares,

- quadratic formula
- completing the square

- 4) solve problems involving quadratic relations wwd
  - sketch a graph
  - interpret a graph

  - guien toV, graph + interpret
     interpret problems + develop equations
    to solve (e.g., revenue)

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Assigned work for Monday - Thursday:

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