



## Quadratic Relations: Writing the Equation

Course: Grade 10 Mathematics

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When writing a quadratic relation, primarily we want to use **Zeros Form** or **Vertex Form** as our starting point. Here are our two forms:

**Vertex Form**  $y = a(x-h)^2 + k$

**Zeros Form**  $y = a(x-s)(x-t)$

**Write the equation of a parabola that has zeros at -2 and 4 and a y-intercept of 8.**

**Write the equation of a parabola that has a vertex at (4,5) and passes through (2,1).**