Beyond Linear Regression  $y = qx^2 + bx + C$   $[x = [x, x, y, y]] : imagine our observation has single feature

<math>
y = \theta_0 + \theta_1 x_1 + \theta_2 x_1^2$ if  $x = [1, x_1, x_1^2] \quad y = x \theta \quad A \quad \text{we're right back}$ at linear regression