## **Chapter 6: Polynomial Functions** 6.0 Getting Started => discuss various moduls for longferm global population scatter plot: A set of points on a grid, used to visualize a relationship or trend in the data polynomial function: a function that contains only operations of multiplication or addition with real-number exponents, and two variables ex. $f(x) = x^3 - 3x^2 + x - 7$ - natural number Getting Started Pg. 378: Truket price Vs. revenue a DTiHe Do not connect doto on a salker plot with we the wash modering 4-axis OX-axis label Ticket Price (\$) label with with units of measure But also, units 6 y-scale Solid lives for discrete Homework: pg. 303 #1-4 introdely subdivided doke in only data it be doke in only data it be doke in only data it be town the time, distance to the continuous continuous continuous quadratic: $y = a(x-h)^2 + k$ (vertex) -> (h, k)y= 2x2+bx+c (general) B) y= 3(x-4) +800 tentical let's use the known point (0,0) stretch to solve for the "2" value. 0=3(0-4)2+860 0=162+800 -800 ~ 16a => [0=-50] $R(t) = -50(x-4)^2 + 860$ Revenue as a Swetton of tiket price