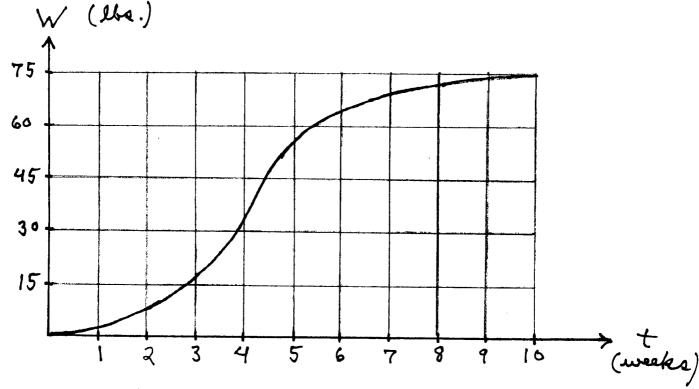
Math 21A Kouba average and Instantaneous Rates of Change

Ex: The given graph represents the weight W (lbs.) of a pumpkin from t=0 weeks to



Estimate the pumpkin's average growth rate (lbs./week) for

i.) t = 0 to t = 10 weeks.

ii.) t = 3 to t = 6 weeks.

Estimate the instantaneous growth rate of the pumpkin for

i.) t = 1 week.

ii.) t = 5 weeks.

Estimate the specific time t at which the pumpkin is growing most rapidly, and estimate the value of this rate.