GROWTH, DECAY, AND RATE OF CHANGE PROBLEMS

A bacteria culture has 500 cells at noon and 1,400 cells at 3 PM. What is the average rate of change in cells per hour?

Alex saves $50 every week in a jar. Jordan invests $200 in an account that grows by 5% each week. After 10 weeks, which person has more money? Explain using linear vs exponential growth.

A plant grows by 15% each week. If it is 12 cm tall now, how tall will it be in 6 weeks? Is this growth or decay?