

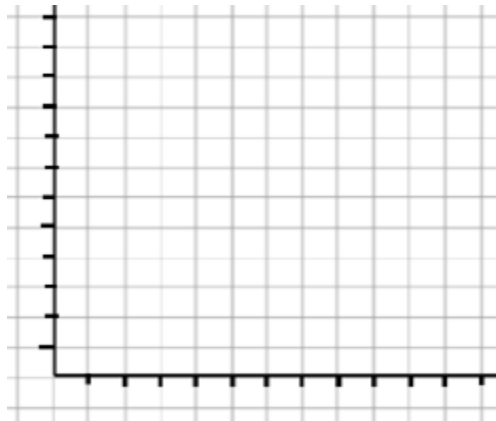
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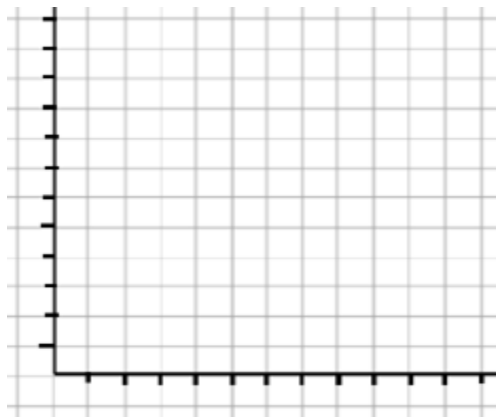
Assignment 1-1

Read the following situations. Then label the axes and sketch the graph to show what type of function best models the situation.

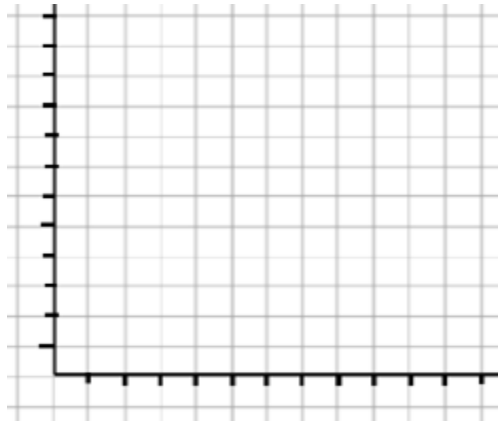
1. A helicopter rises at a constant rate of 10 meters per second until it reaches a height of 400 feet. The height of the helicopter between take-off and 400 feet is a function of time.



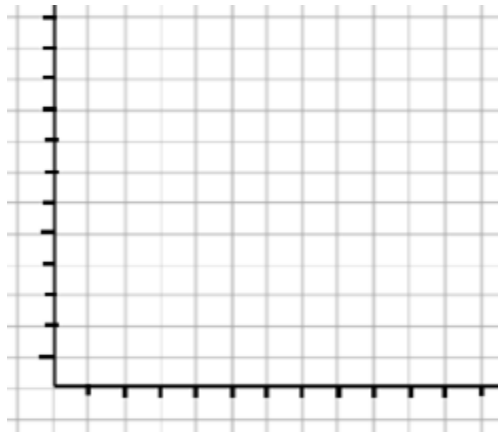
2. Dylan decides to stop working during soccer season. He has \$750 in his savings account when soccer season starts. He decides to take out \$50 per week during the season. The money in his account is a function of time.



3. Mr. Cicero invests \$5000 in a stock that increases 4% in value each year. The value of the stock is a function of time.



4. Audley served a volleyball at an upward angle during a recent phys-ed class. The height of the volleyball between the time it is served and the time it hits the floor is a function of time.



5. How are the graphs of linear and exponential graphs similar? How are they different?
6. How are the graphs of exponential and quadratic graphs similar? How are they different?