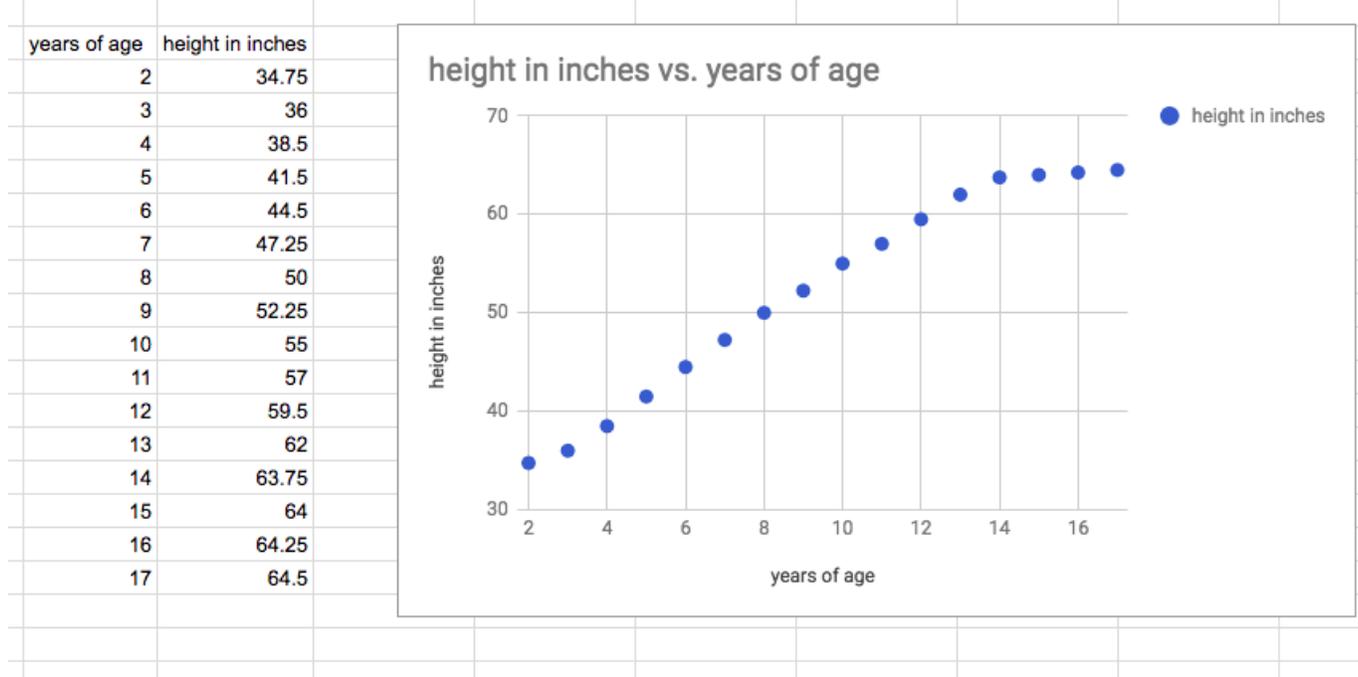


## 2-1 EXAMPLE: AVERAGE RATE OF CHANGE

The table below gives the height (in inches) of a girl every year starting at 2 years of age. Each point in the table is plotted on the graph on the right.



1. Find her average rate of growth from year 2 to year 10.
2. Find her average rate of growth from year 9 to year 10.
3. Find her average rate of growth from year 10 to year 17.
4. Find her average rate of growth from year 10 to year 11.
5. *Estimate* her rate of growth on the instant of her 10th birthday.
6. Use the plotted points to sketch an approximation of this girl's growth curve and sketch the four secant lines and one tangent for which you found the slope in parts 1-5 above.