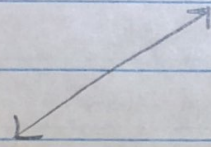


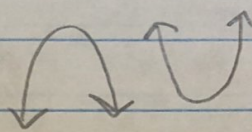
Types of Regression

1) Linear Regression



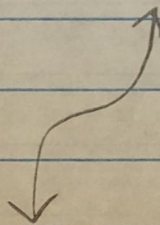
Line (#4)
 $y = mx + b$

2) Quadratic Regression



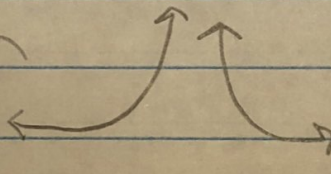
Parabola (#5)
 $y = ax^2 + bx + c$

3) Cubic Regression



Squiggly (#6)
 $y = ax^3 + bx^2 + cx + d$

4) Exponential Regression



Exponential (#0)
 $y = ab^x$

Determining Which Regression to Use

- ① Look at scatterplot
- ② Run the regression
- ③ Residual Plot

- Good Fit - No Pattern
- Bad Fit - Pattern

