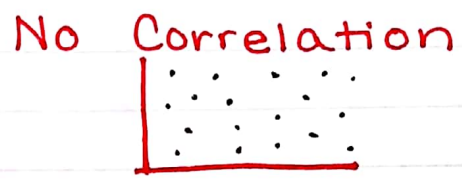
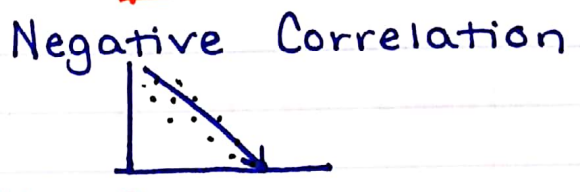
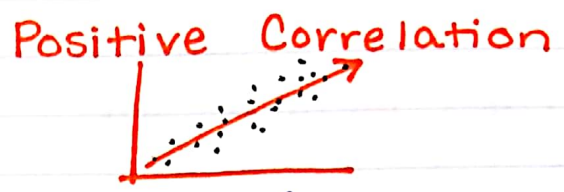
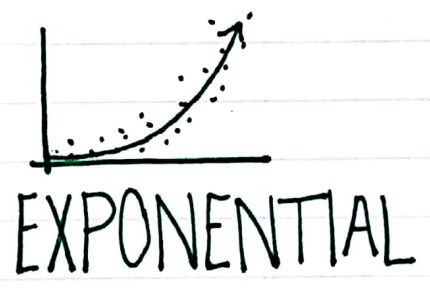
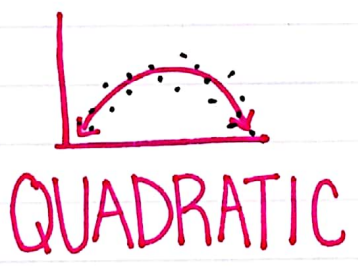
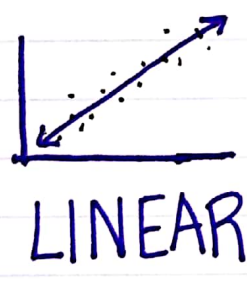


# Correlation vs. Causation

SCATTER PLOTS  
can have 3  
different  
CORRELATIONS



If a scatter plot has a NON-LINEAR or NO correlation, then it can have a QUADRATIC or EXPONENTIAL relationship



**CORRELATION:** The statistical relationship between two variables

The causal relationship between two variables : CAUSATION

# CAUSATION

Earning an A, B, C or D causes you to pass Math I

Lightning causes thunder

# CORRELATION

- Studying causes you to pass Math I

- Thunder and lightning causes rain

Correlation **DOES NOT IMPLY** Causation