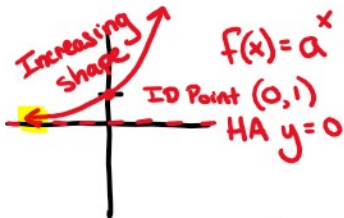
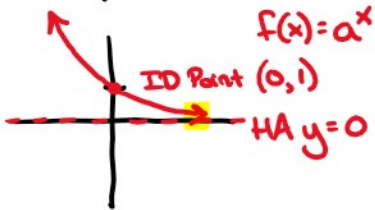


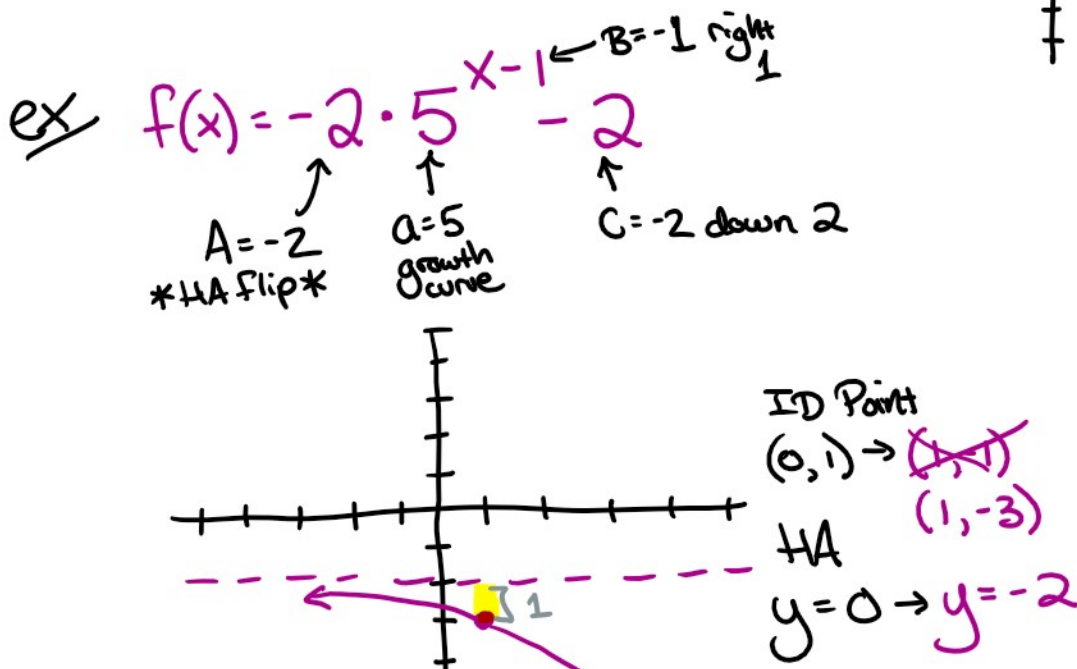
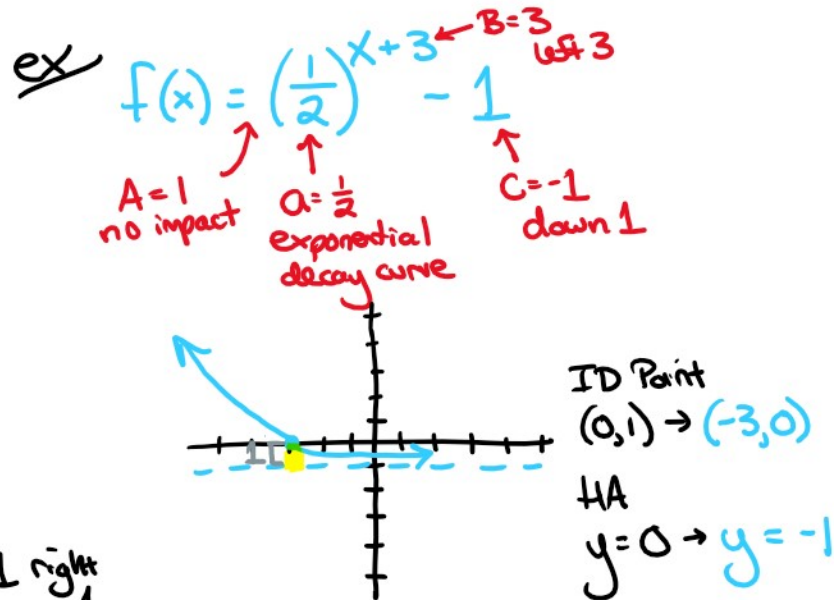
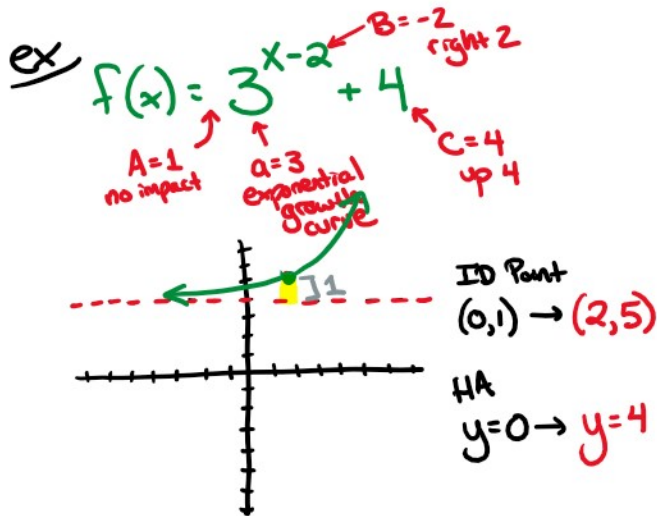
$f(x) = A(x+B)^2 + C$
 negative $\rightarrow$ flip
 fraction $\rightarrow$ squish
 larger $\rightarrow$ stretch
 + Left + up
 - Right - Down
 vertex @ $(-B, C)$

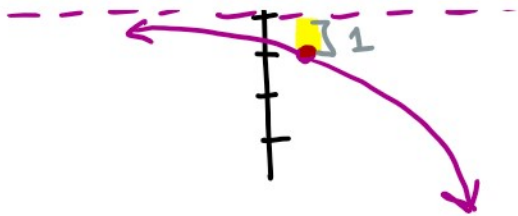


$f(x) = A \cdot a^{x+B} + C$
 negative $\rightarrow$ HA flip
 base #
 + Left + up
 - Right - Down
 HA @ $y = C$



$a > 1$ increasing graph shape (exponential growth)
 $0 < a < 1$ decreasing graph shape (exponential decay)





$$y=0 \rightarrow y=-2$$