## Word Droblems

I. Quadratic $y=a x^{2}+b x+c$
A. Projectile Motion

1. Maximum Height? Find the vertex
2. Hits the ground? Find the $x$-intercepts
a. factoring
b. complete the square
c. quadratic formula
II. Exponential $y=a \cdot b^{x}$
A. \% change
3. increase, $b=(1+\%)$
4. decrease, $b=(1-\%)$
B. Double, triple, quadruple...
III. Linear - constant rate of change $\quad y=m x+b$
A. Slope \& y-int
B. Slope \& 1 point
C. 2 points
