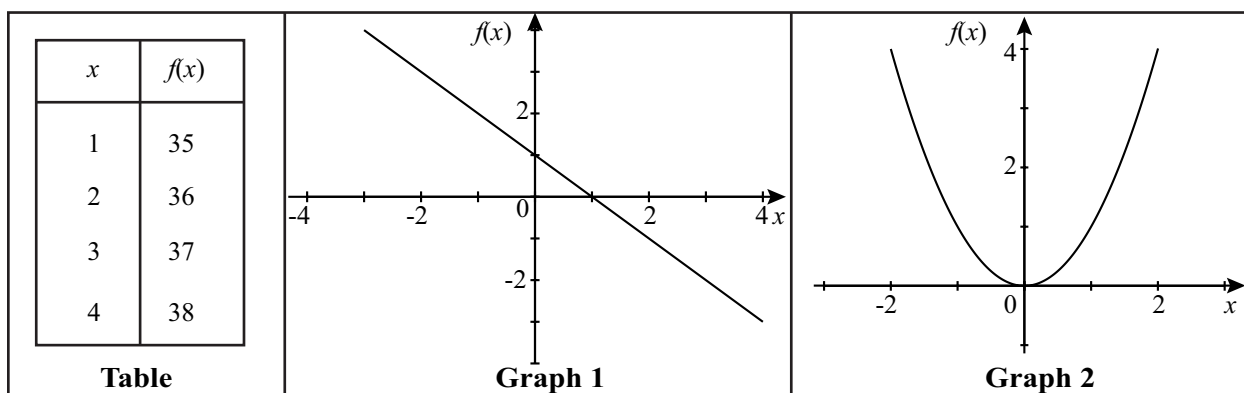


Linear, Quadratic and Exponential Worksheet 1



- Find the formula of $f(x)$ given in the above table
 $f(x) = x + 34$.
- Find the x -intercept of the above function.
 -34
- Which function grows faster $y = x^3$ or $y = 3^x$.
 $y = 3^x$
- What is the equation for the Graph 1?
 $f(x) = -x + 1$.
- What is the equation for the Graph 2?
 $f(x) = x^2$.
- With every minute that your sister runs, her heart rate (per minute) starts at 50, then becomes 60, then 70, then 80, and then 90. Find a function that models this?
 $f(x) = 10x + 50$.
- During your first year you baked 2,000 cookies and the next year, you made 3,000. The next year was 4,000. What function could model this success (assuming that $x = 0$ your first year)?
 $f(x) = 1000x + 2000$.
- What kind of sequence is 2, 3, 4, 5, 6, 7...?
 Arithmetic
- What kind of sequence is 10, 20, 40, 80...?
 Geometric
- How is an exponential function different from a linear function?
 Exponential functions have variables as exponents, but linear functions are always to the power of 1.