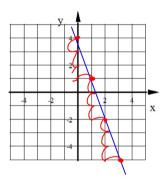
The graph of an equation containing |x| or |x| always turns out to be a V-SHAPE

These are called Absolute Value Equations

Graph this equation:

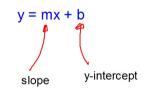
$$y = -3x + 4$$



The graph of an equation containing x^2 or $(x)^2$ always turns out to be a PARABOLA

These are called Quadratic Equations

The graph of an equation looking like always turns out to be a LINE



These are called Linear Equations

Functions in Algebra 1:

Linear Functions:

EQ: y = mx + b

Graph: Line

Absolute Value Functions:

EQ: y = a|x - h| + k

Graph: V-Shape

Quadratic Functions:

EQ: $y = ax^2 + bx + c$ or $y = a(x - h)^2 + k$

Graph: Parabola

The graph below shows the distance a person travels as a function of the amount of time they've been traveling. Explain what each line represents Section A Section B Not Moving Section C Moving Time

Section 5-1: Relating Graphs to Events

