## Section 3.4 Functions

Find domain, range, increasing, decreasing...given a graph or a function that you can graph Find a linear function word problems

<u>Section 3.5</u> stretching, shifting, reflecting of graphs piece-wise functions graphing word problems

Section 3.6 Parabolas Standard form:  $y = a(x - h)^2 + k$ Vertex : (h,k)

**Quadratic form:** 

 $y = ax^{2} + bx + c$ Vertex: x - coord =  $-\frac{b}{2a}$  or find average of x - int.

## plug in to find y

Word problems

Section 3.7 Add, subtract, multiply, divide two functions Composition of functions  $f \circ g$ Word problems

Section 4.6 directly proportional y = kxinversely proportional  $y = \frac{k}{x}$ word problems <u>Section 2.7</u> Solving inequalities using a sign chart

<u>Section 4.1</u> Using a sign chart to graph polynomials with degree more than 2

<u>Section 9.1</u> Solving a system of equations using substitution

<u>Section 9.2</u> Solving a system of equations using elimination Word problems