Review for Exam 3

Section 3.5

stretching, shifting, reflecting of graphs piece-wise functions graphing word problems

Section 3.6 Parabolas

Standard form:

$$y = a(x-h)^2 + k$$

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

 $\overline{\text{directly proportional } y = kx}$

inversely proportional $y = \frac{k}{x}$

word problems

Section 2.7

Solving inequalities using a sign chart

Section 4.1

Using a sign chart to graph polynomials with degree more than 2

Section 9.1

Solving a system of equations using substitution

Section 9.2

Solving a system of equations using elimination Word problems