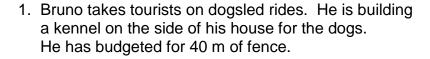
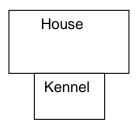
Math 2201: Review Questions Chapter 6





- a). Write a quadratic function to represent the area of the kennel.
- b). What is the maximum area and what are the dimensions of the kennel?
- 2. Members of a local church hold a fundraiser every Sunday afternoon. They charge \$6 for a coldpate. They have regularly sold 120 coldplates and they know for every \$1 increase 10 fewer coldplates will be sold. What should the church members charge if they want to raise as much money as they can for the church?
- 3. A quarterback kicks a ball from the ground. It goes over the goal post and lands on the ground 50 ft away. If the ball reaches a maximum height of 20 ft during its flight, determine the quadratic function that models this situation and state the domain and range.

Vertex	Axis of Symmetry	Direction of Opening
	Y - intercept	
Maximum/Minimum Value	$y = -2(x+3)^2 + 4$ Sketch	Number of x-intercepts
Domain		
Range		

Vertex	Axis of Symmetry	Direction of Opening
	Y - intercept	
Maximum/Minimum Value	$y = -x^2 + 8x - 12$	Number of x-intercepts
Domain	Sketch	
Range		

Vertex	Axis of Symmetry	Direction of Opening
	Y - intercept	
Maximum/Minimum Value	y = 2(x-4)(x+2)	x-intercepts
Domain	Sketch	
Range		