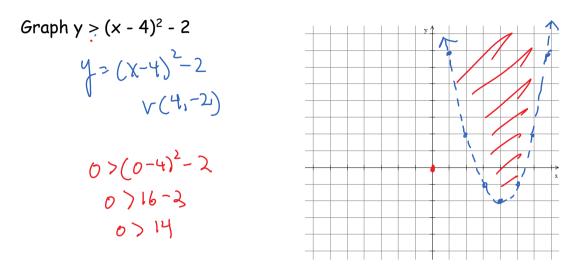
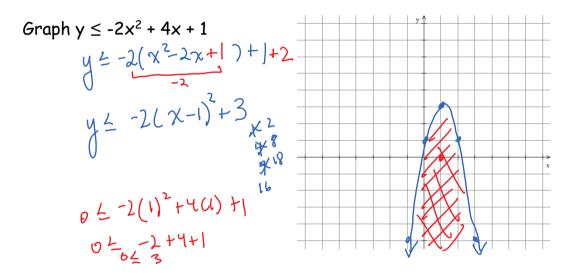
Example 1



Example 2



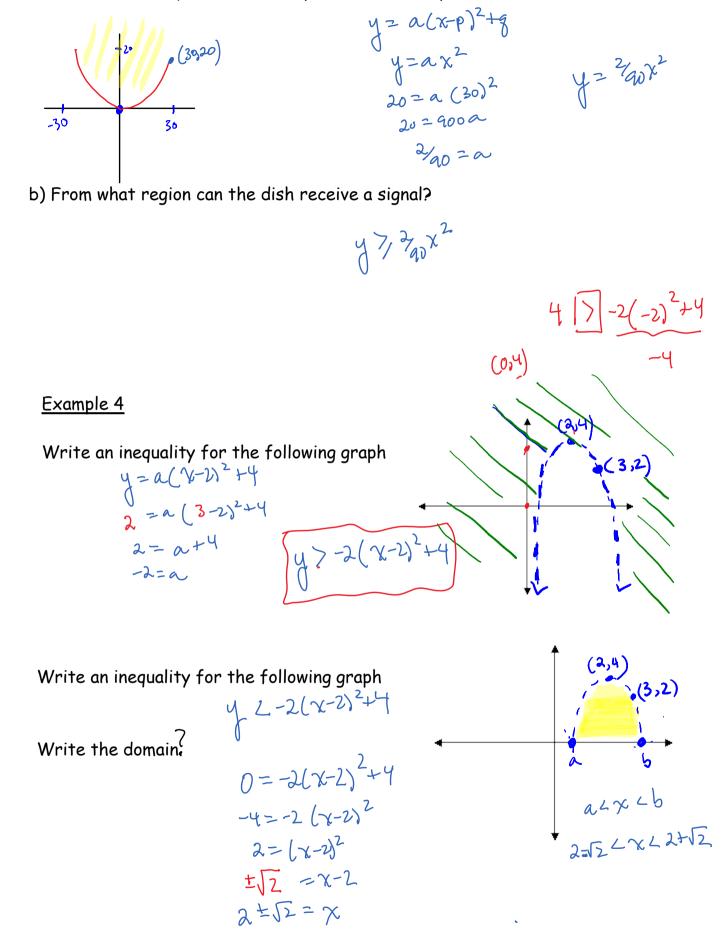
How is the solution of a quadratic inequality in two variables different from a quadratic inequality in one variable

The solution of a quadratic inequality in 2 variables is a set of ordered pairs that can be represented as a region on a coordinate plane. The solution of a quadratic inequality in 1 variable is a set of numbers that can be represented on a number line.

Example 3

A satellite dish is 60 cm in diameter and 20 cm deep. The dish has a parabolic cross section. Locating the vertex at the origin

a) determine the equation which represents the shape of the dish



Example 5

A rope, of diameter 'd' cm, can hold up to 'M' pounds, modelled by the inequality $M \le 200(d - 1)^2$. Graph the inequality



Assignment p496 #1ac,3, 4ac,5ac,6ac,8,9,11a,13a

* Review Quiz next class *