

Review Pg. 256#11

U4L3 – 3.2 Properties of Quadratic Relations (2 – 3 days)

Students will:

- learn how to find maximum and minimum values using quadratics
 - learn terminology associated with quadratic relations
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Part 1: Maximizing the Area Enclosed by a Fence

Complete Pg. 261 # (1 – 4) all

Part 2: Minimize Cost for a Given Perimeter

Complete Pg. 262 #(1 – 4a) all (omit 4b)

Carefully read the Key Ideas on pg. 263

Examples

1. Cliff wants to make the largest possible rectangular vegetable garden using 18m of fencing. The garden is right behind the back of his house, so he has to fence it on only three sides. Determine the dimensions that maximize the area of the garden.

2. For the quadratic relation $y = x(6x - 18)$. Without making a table of values or drawing the graph find:

a) the coordinates of the vertex of the parabola

b) the direction of opening

c) the axis of symmetry

Ex. Pg. 266 – 269 #(1 – 2)alt,3all,6all,8,(9 – 10)alt,11,13