

Algebra Essentials and Applications Internet Activity

ME1 Graphs Investigations

1. Use a graphing calculator to graph $f(x) = x(8 - x)$. At what point does this function reach its maximum value? What are the dimensions of the best rectangle for Farmer Bob's pen?

2. Experiment with several variations of the "squaring" function ($y = a(x-b)^2 + c$) by changing the values of a , b , and c , and graphing with a graphing calculator. What effect does the value of each constant (a , b , and c) have on the function?
