

Assignment #2-3

Secondary 3 Honors

PreCalculus Book:

Pg. 137 6, 9, 12, 15, 18, 19, 26, 27, 30, 33, 36, 38, 39, 41, 47, 48, 53, 54, 57, 58

Carnegie Book:

Pg. 116 3(a -e)

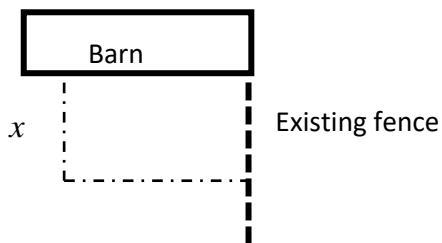
Additional Problems: Complete these problems on a separate sheet of paper.

Given $f(x) = 2x^2 - 3$, find the following:

1. $f(-4)$ 2. $f(x+1)$ 3. $\frac{f(x+h)-f(x)}{h}$

4. Find the inverse of the function. $f(x) = (x-3)^2, x \geq 3$

5. A fenced in area is to be constructed with 180 feet of fencing next to a barn and an existing fence. No fencing is needed next to the barn or the existing fence. Label the figure in terms of x , write an equation for the area of the region, in term of x . Find the dimensions for the maximum area.



6. Graph the following without a calculator. Show at least 2 points.

a. $y = 2(x - 4)^2 + 1$

b. $y = -x^3 + 2$

c. $y = \sqrt{-x} - 3$