Assignment #2-1   Secondary 3 Honors

PreCalculus Book:

      Pg. 99 5, 9, 12, 18, 21, 24, 30 (answer in vertex form), 31 (answer in vertex form), 39, 40, 45, 46, 55 (use your calculator)
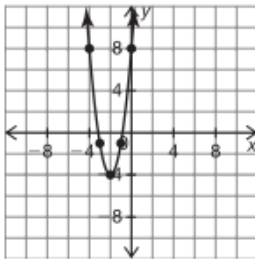
Carnegie Book: (Please write on this page, tear it out, and turn it in with your assignment.)

      Pg. 68 #1

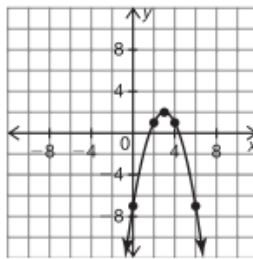**Additional Questions**: (Do these problems on a separate sheet of paper.)

1-3: Write an equation for each parabola.

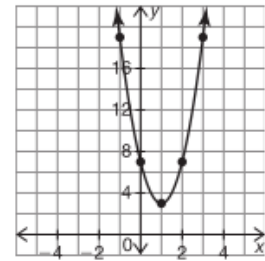 1.   2.   3.

The total revenue R (in dollars) earned by a dog walking service is given by $R(p) = -12p^2 + 150p$ where p is the price charged per dog (in dollars).

      4. Find the revenue when the price per dog is $4, $6, and $8.

      5. Find the price that will yield a max revenue.

      6. What is the max revenue?

7. Write the equation of a line that passes through (-2,2) and (3,7).

State the domain for each function:

    8. $f(x) = x^2 + 9$ 9. $f(x) = \sqrt{x-7}$ 10. $g(x) = \frac{x+5}{x^2-49}$