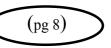
Calculus AB

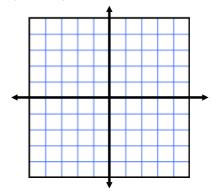
P-1

Graphs and Models



Sketch the graph of the equation by point plotting. (or not)

7)
$$4 - x^2$$



In exercises 19-28, find any intercepts.

How do you find x - intercepts?

How do you find y - intercepts?

22)
$$y^2 = x^3 - 4x$$

In exercises 29-40, test for symmetry with respect to each axis and to the origin.

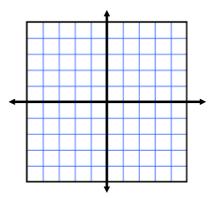
Odd function -

Even function -

34)
$$xy^2 = -10$$

In exercises 41-58, sketch the graph of the equation. Identify any intercepts and test for symmetry.

52)
$$y = \sqrt{25 - x^2}$$



In exercises 63-70, find the points of intersection of the graphs of the equations.

66)
$$x = 3 - y^2$$

 $y = x - 1$

7th ed 77) The table shows the consumer price index (CPI) for selected

Year	1970	1975	1980	1985	1990	1995	2000
CPI	38.8	53.8	82.4	107.6	130.7	152.4	168.7

- a) Use the regression capabilities of a graphing calculator to find a mathematical model of the form $y = at^2 + bt + c$ for the data. In the model, y represents the consumer price index, and t represents the year, with t = 0 corresponding to 1970
- b) Graph the model and compare the data with the model.
- c) Use the model to predict the CPI for the year 2004.