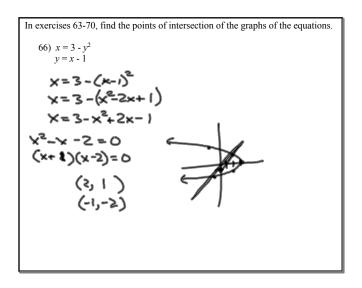


In exercises 41-58, sketch the graph of the equation.
Identify any intercepts and test for symmetry.
52)
$$y = \sqrt{25 - x^2}$$

x-int : **E ± 53**
y-int : **(0,5)**
y-axis
G



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, <i>y</i> represents the consumer price index, and <i>t</i> 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.									

