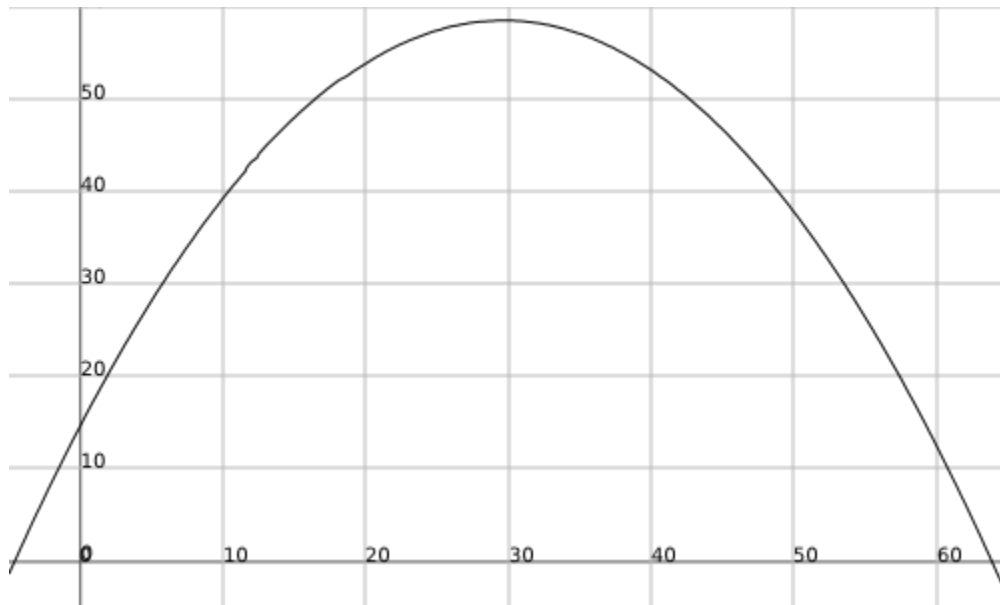


The percentages of moms (with infants) who work are shown in the following table for various years.

Year	Percent	Year	Percent
1976	31	1992	54
1980	38	1995	55
1984	47	1998	59
1988	51	2003	55

Let p be the percentage of moms (with infants) at t years since 1970. A quadratic model is sketched below.



- Clearly define your variables and identify the independent and dependent variables.
- On the graph, draw a scattergram of the data. Does the model seem to fit the data well?
- Predict the percentage of moms with infants who will work in 2011.
- Predict when half of moms with infants will work.
- According to the model, what was the maximum percentage of moms with infants who worked?
- What are the t -intercepts of the model? What do they mean in this situation?