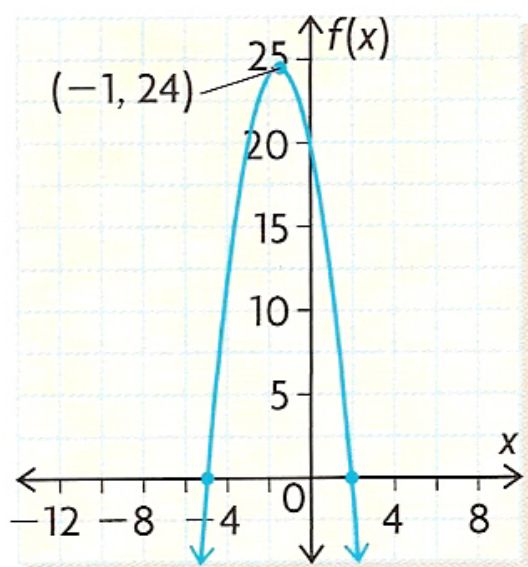


3.6 - Creating Quadratic Models from Data

Sometimes we are given data in the form of a graph or a table of values and we want to find an equation that models that data.

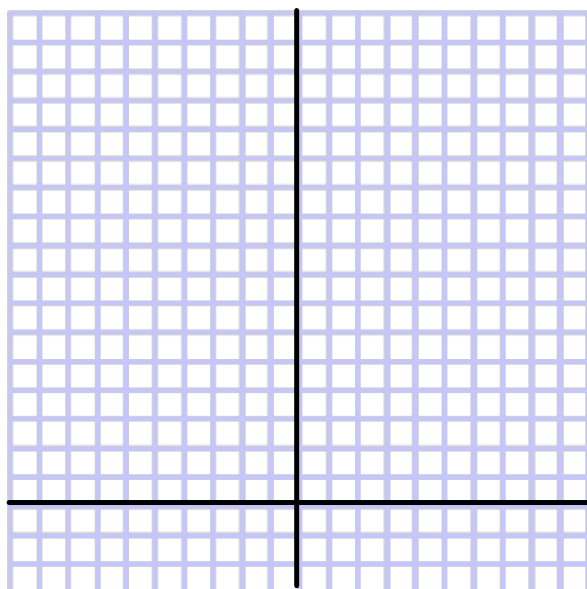
Example 1: Determine an equation in factored form that best represents the graph shown below.



Example 2: Using the table of values below, write an algebraic model in factored form.

x	-10	-8	-6	-4	-2	0	2	4	6	8	10
y	35.0	40.0	44.6	47.6	49.4	50.0	49.4	47.6	44.4	40.4	35.0

Solution: Graph the data!



HW pg. 177 # 1, 3, 4ab, 5, 7, *9