

Find an equation in standard form of the parabola passing through the points. Then approximate the maximum or minimum.

<b>1.</b> (1, -1), (2, -5), (3, -7)	<b>2.</b> (1, -4), (2, -3), (3, -4)
3. (2, -8), (3, -8), (6, 4)	<b>4.</b> (-1, -12), (2, -6), (4, -12)
5. (-1, -12), (0, -6), (3, 0)	<b>6.</b> (-2, -4), (1, -1), (3, 11)

x	f(x)
- 1	7
1	5
3	11

10	x	f(x)
	- 2	-7
	0	1
	2	1

13. The table shows the number n of tickets to a school play sold t days after the tickets went on sale, for several days.a. Find a quadratic model for the data.

**b.** Use the model to find the number of tickets sold on day 7.

**c**. When was the greatest number of tickets sold?

, t T	Number of ickets Sold, <i>n</i>
	32
	64
	74
	<i>r, t</i> T

- **14.** The table gives the number of pairs of skis sold in a sporting goods store for several months last year.
  - **a.** Find a quadratic model for the data, using January as month 1, February as month 2, and so on.
  - **b.** Use the model to predict the number of pairs of skis sold in November.
  - c. In what month were the fewest skis sold?

Number of Pairs of Skis Sold, s
82
42
18