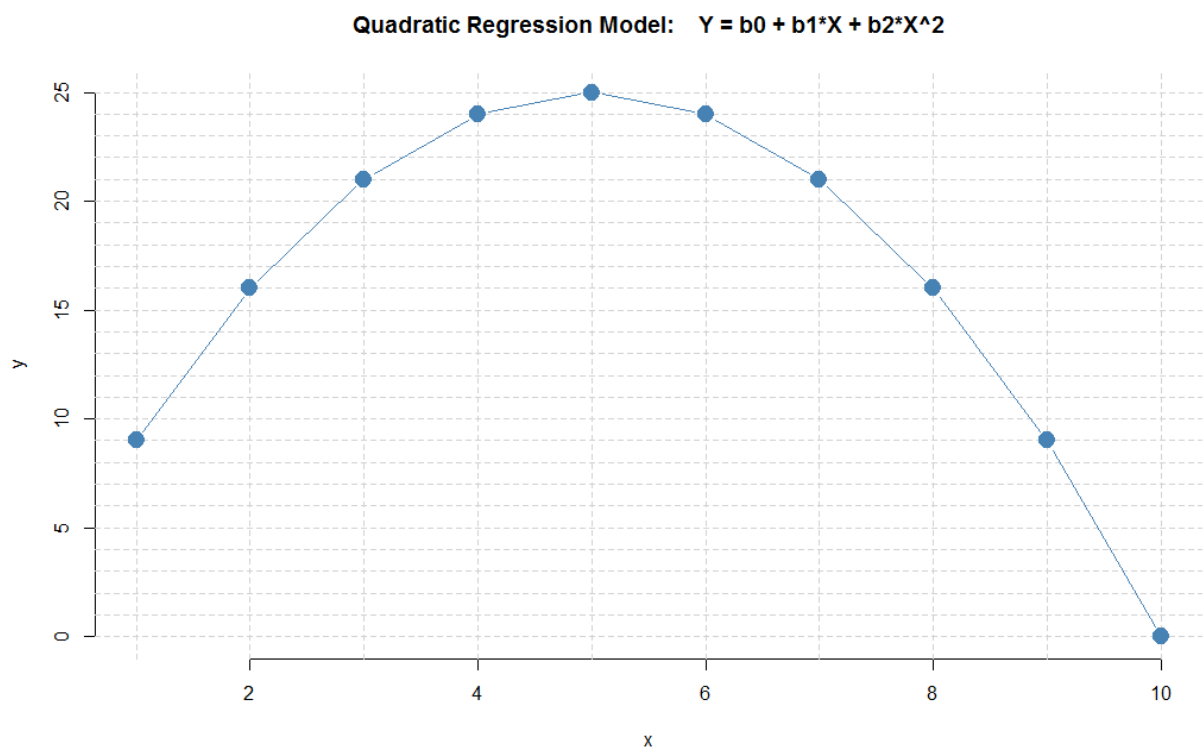


Marginal Effects in Quadratic Regression Models:



x	xsq	yhat
1	1	9
2	4	16
3	9	21
4	16	24
5	25	25
6	36	24
7	49	21
8	64	16
9	81	9
10	100	0

The regression model in this example has the following parameters:

$$Y = 0 + 10 * X - 1 * X^2$$

Question: what is the marginal effect (change in Y associated with one-unit change in X) at the given points:

1. What is the marginal effect at X=1? What is the “slope” between X=1 and X=2?

2. What is the marginal effect at X=5?

3. What is the marginal effect at X=9?