Decision Trees

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Fall 2025 COSC410A: Applied Machine Learning
Colgate University

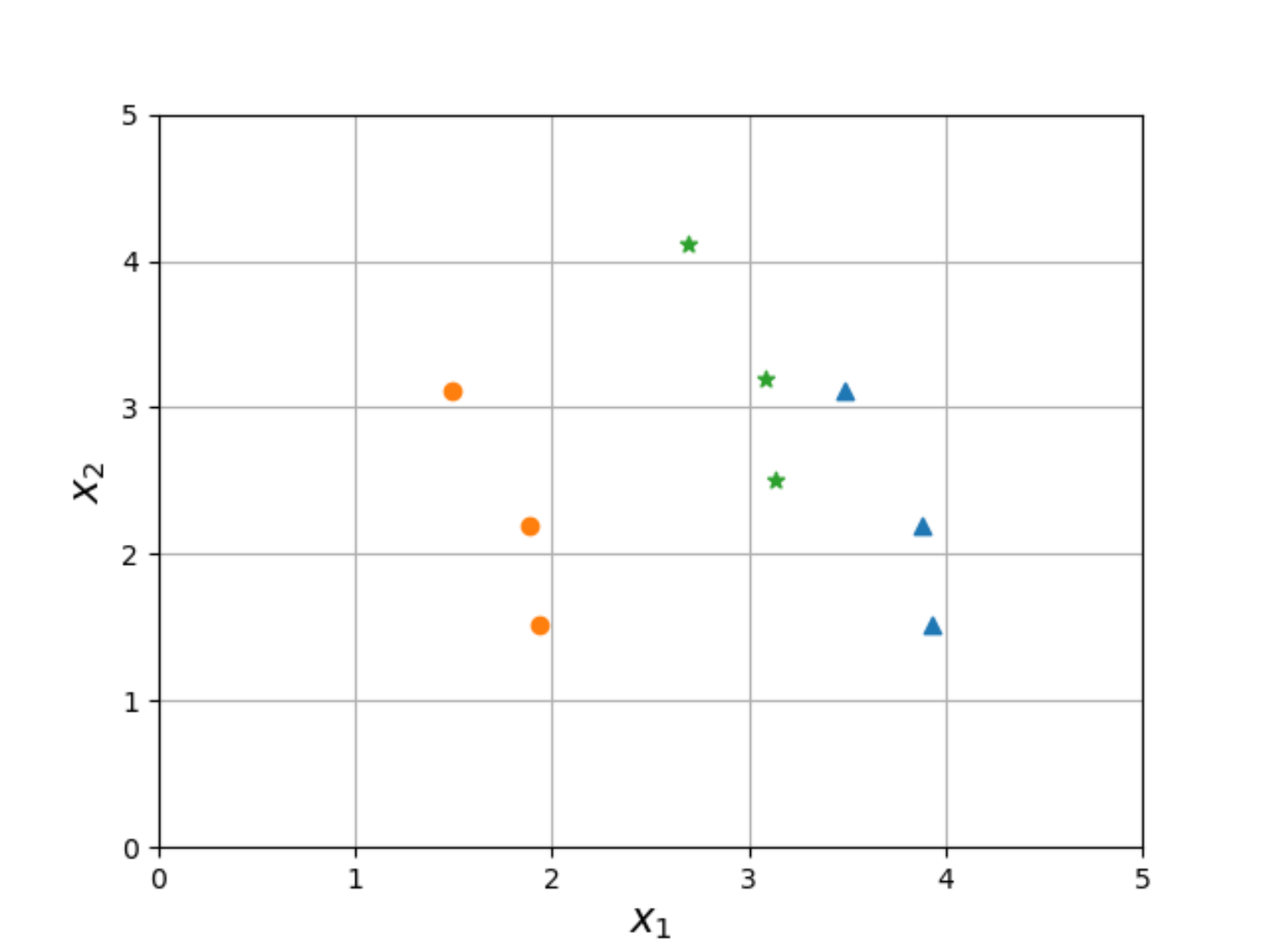

Figure 1: A dataset with two features and three output labels (an orange circle, a blue triangle, and a green star).

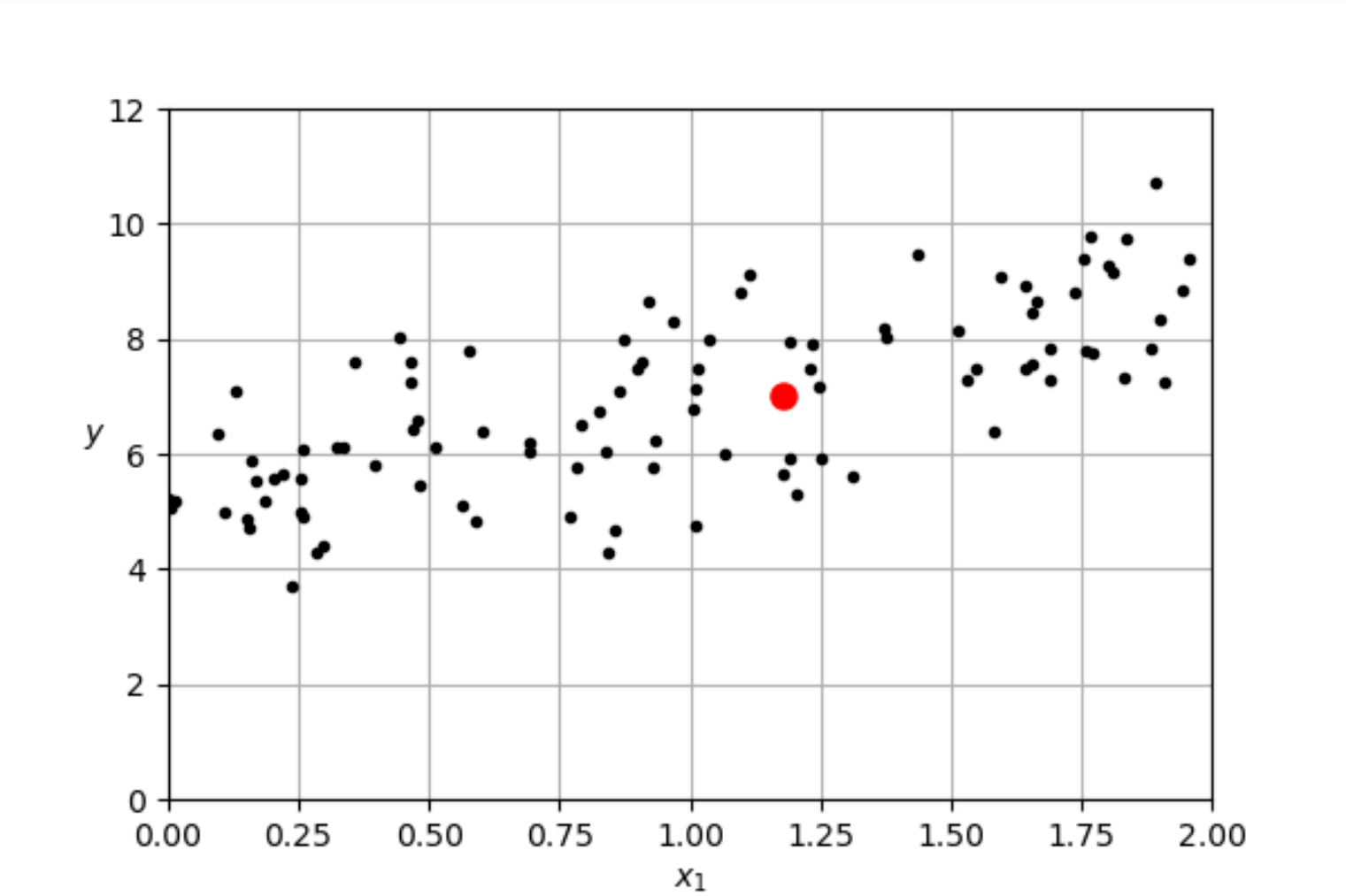

Figure 2: A basic dataset with one feature and a continuous output label. One sample data point is highlighted in red.

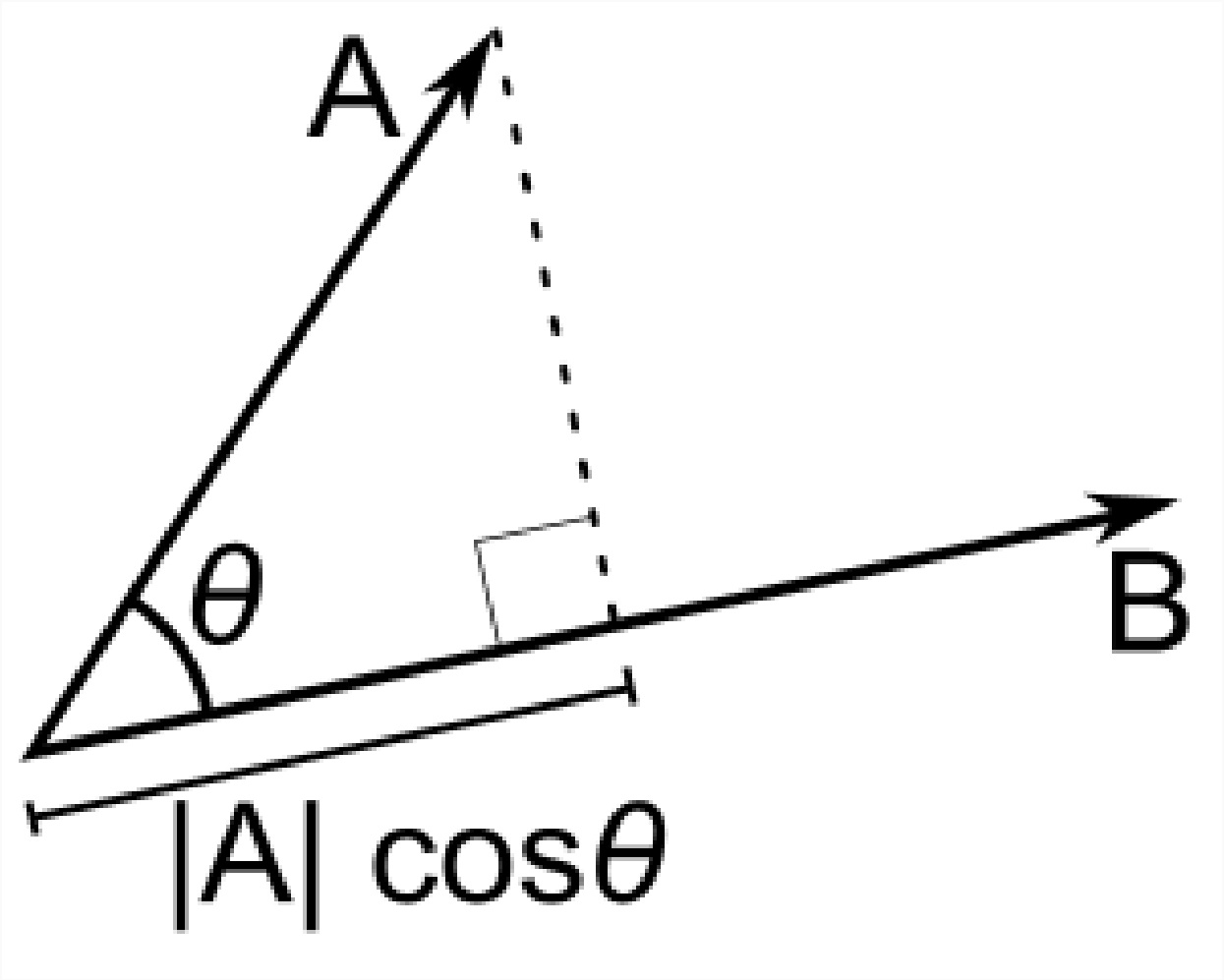

Figure 3: Projection of one vector onto another.

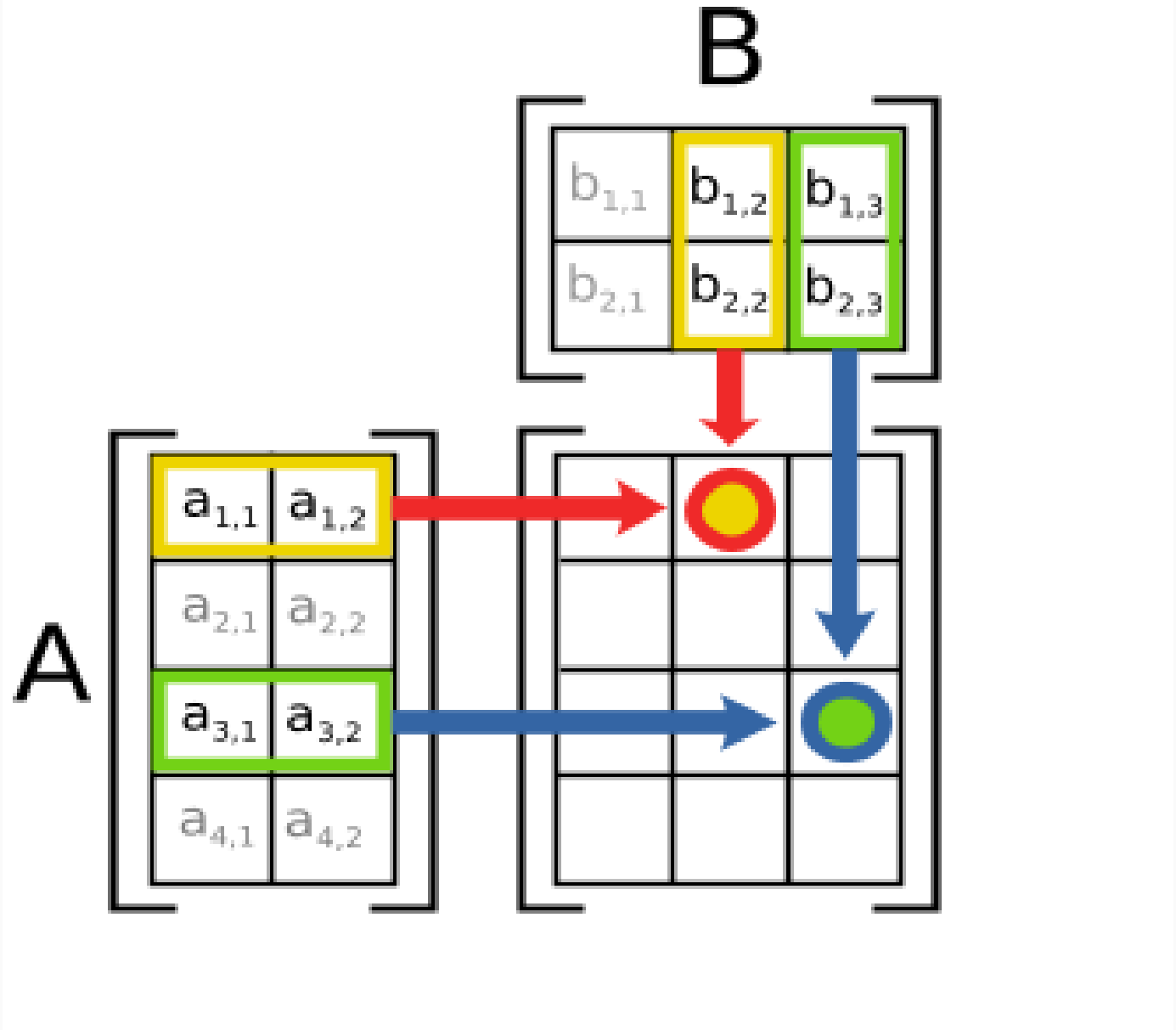

Figure 4: Visual representation of matrix multiplication to determine the output in two cells.

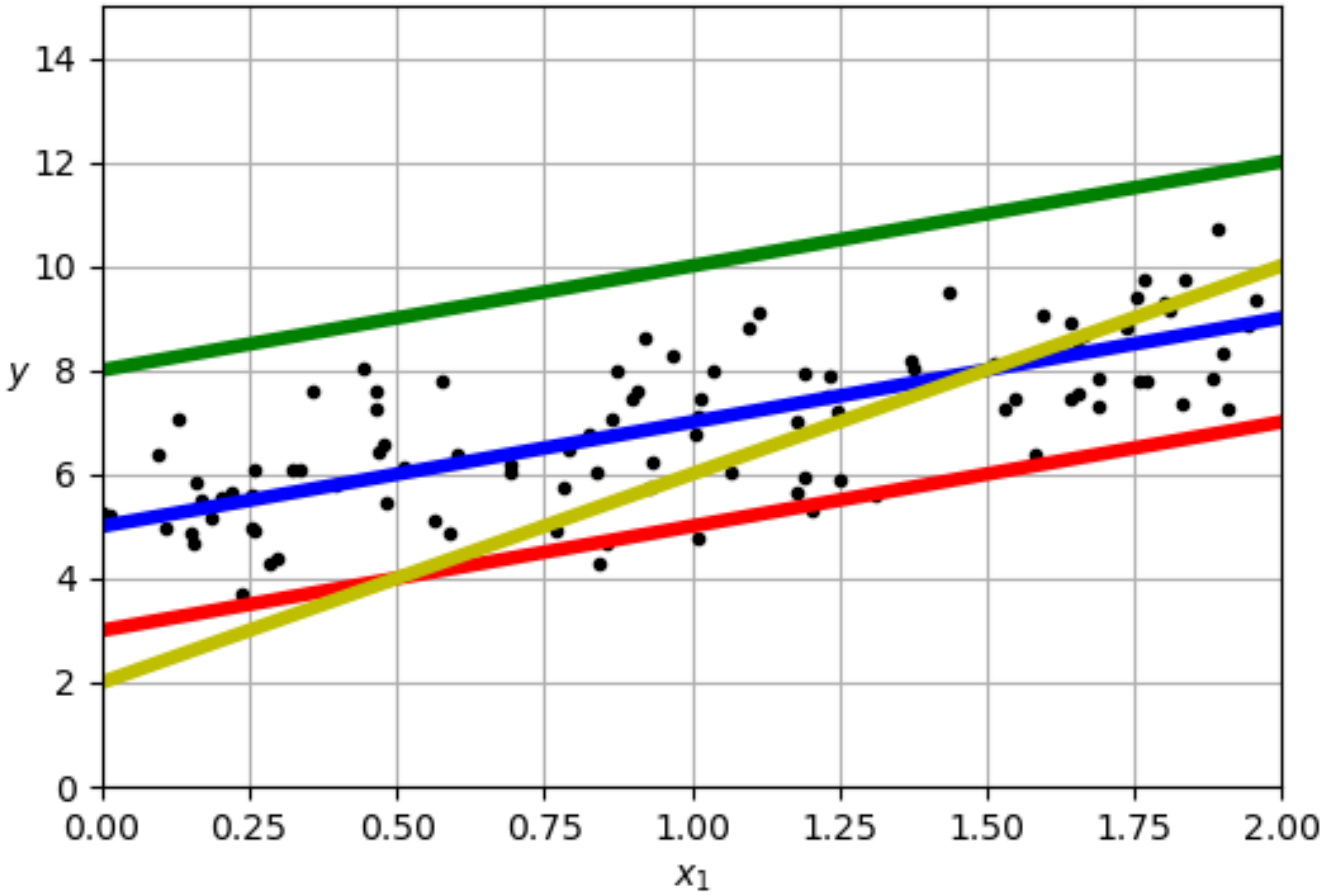

Figure 5: Four possible models fit to our sample data.

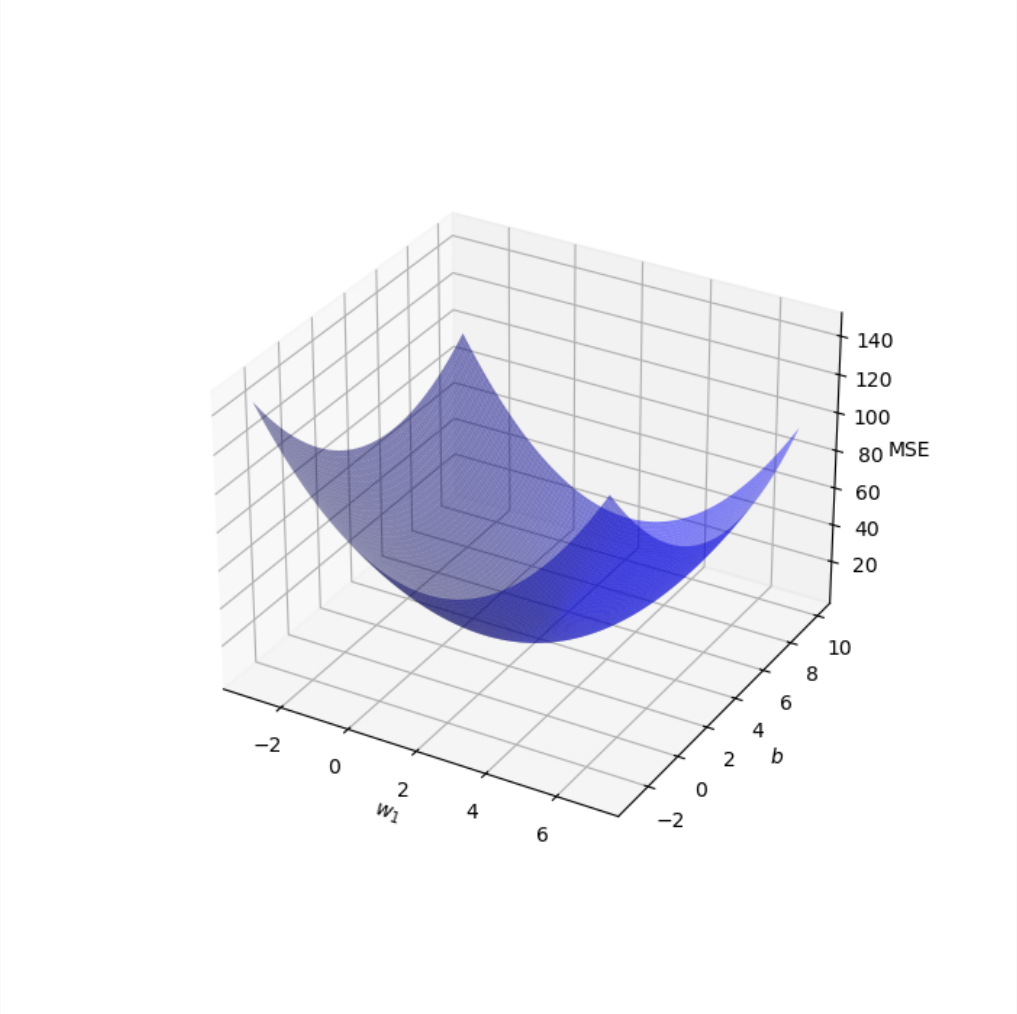

Figure 6: Mean-squared error with different parameters.