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1)

When I set the starting point to (12, 12) and use a learning rate of 1, it did not converge within 5000 iterations.

When I set the learning rate to 0.1, it converged after 133 iterations.

When I set the learning rate to 0.01, it converged after 1017 iterations.

2)

Yes, when the learning rate is set to 1, it does not converge.