Newton's Method

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For the first problem:
[[7.50555325e+01, 2.49444675e+01]

[5.63511813e+01, 1.87043512e+01]

[4.23282409e+01, 1.40229404e+01]

[3.18181160e+01, 1.05101249e+01
[2.39449336e+01, 7.87318237e+00]

[1.80525456e+01, 5.89238797e+00]

[1.36498372e+01, 4.40270844e+00]

[1.03697843e+01, 3.28005288e+00]

[7.93885606e+00, 2.43092824e+00]

[6.15424359e+00, 1.78461247e+00]

[4.86712271e+00, 1.28712088e+00]

[3.97082038e+00, 8.96302331e-01]

[3.39309996e+00, 5.77720416e-01]

[3.08810476e+00, 3.04995201e-01]

[3.00038134e+00, 8.77234230e-02]

[2.99996104e+00, 4.20293866e-04]

[3.00000400e+00, 4.29576967e-05]]

For the second problem: two positive solutions

[397.5093084, 297.5093084
[401.45618742, 3.94687901]]
two negative solutions
I am not sure how to find the negative solutions