

A1 Newton

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For the first equation when the initial iterates are less than or equal to 0 then the function converges to about -2.7. When the initial iterates are greater than or equal to 3 then the function converges to 3. Then when the initial iterate is between 0 and 3 the function converges to approximately 1.4.

For the second equation the function converges to approximately 0.85 when the initial iterate is between -1 and 1. When the initial iterate is equal to 2 then the function converges to about 2.6. Then the function converges to -1.826 and -4.857 when the initial iterate is equal to -2 and -5 respectfully.