

1.Graph for approximation using Hermite of order 2

2. Graph of approximation using Hermite of order 3

3. Graph of approximation using Hermite of order 4

4. Graph of approximation using Hermite of order 5

5. Graph of approximation using Hermite of order 6

6. Graph of approximation using Hermite of order 7

7. Graph of approximation using Hermite of order 8

Graph of training and validation loss for best Hermite for approximation (33)

Graph of the loss of Best Hermite for approximation (33) and ReLU, Sigmoid, and Tanh.

Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Method | Loss Error | # Epochs | # Filters | # Parameters | Training time |
| Our Method |  |  |  |  |  |
| ReLU |  |  |  |  |  |
| Sigmoid |  |  |  |  |  |
| Tanh |  |  |  |  |  |