```matlab
error=0.01;% defining error
L = 100;
h = [100 50 25 12.5 6.25 3.125 1.5625 0.78125];

for i=h

    [x,y] = finiteDiff(i);

    if i == max(h)
        plot(x,y,'LineWidth',1.3);
    else
    plot(x,y);
    end
    hold on;
    y1 = y;
    h=h/2;
end
```

No. of operations in Gauss elimination
   46

No. of operations in back-substitution
   16

ans =

    2

ans =

    2

No. of operations in Gauss elimination
   90

No. of operations in back-substitution
   25

ans =

    3

ans =

    3

No. of operations in Gauss elimination
  245

No. of operations in back-substitution
    49

ans =

    5

ans =

    5

No. of operations in Gauss elimination
    935

No. of operations in back-substitution
    121

ans =

    9

ans =

    9

No. of operations in Gauss elimination
        4731

No. of operations in back-substitution
    361

ans =

    17

ans =

    17

No. of operations in Gauss elimination
        29155

No. of operations in back-substitution
        1225

ans =

```
    33


ans =

    33

No. of operations in Gauss elimination
     202675

No. of operations in back-substitution
       4489


ans =

    65


ans =

    65

No. of operations in Gauss elimination
     1507155

No. of operations in back-substitution
      17161


ans =

   129


ans =

   129
```
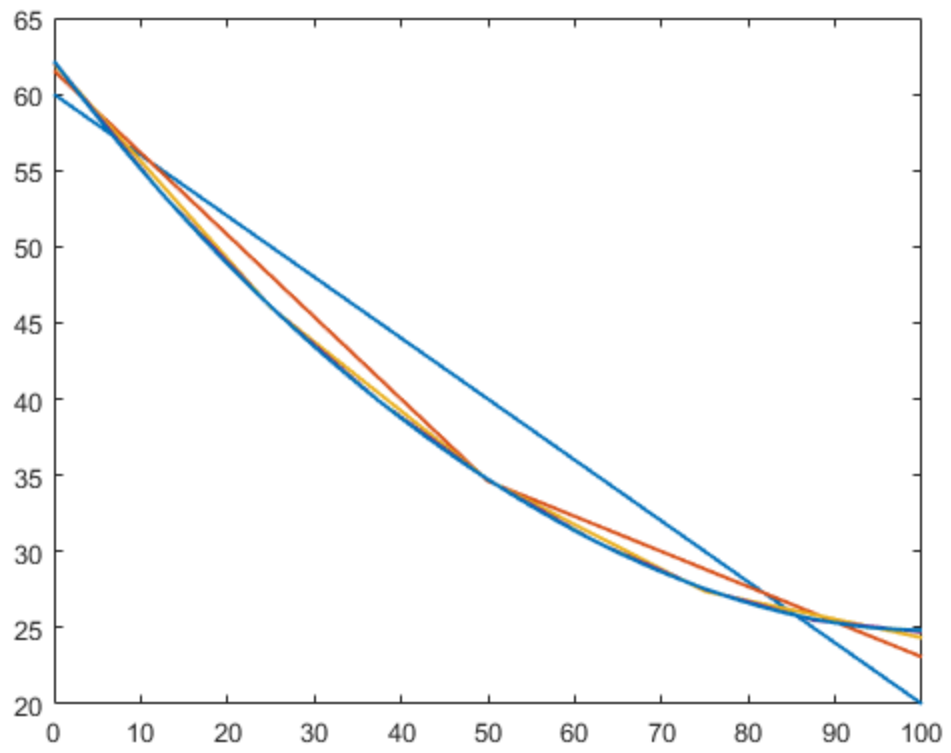
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