
```

clear all;format long;format compact;

mybetween(2,6,20)

    ans =
    2.8000000000000000

mybetween(-6,-3,12)

    ans =
    -5.6400000000000000

mybetween(7,7,2)

    ans =
    0

mybetween(6,-2,85)

    ans =
    4.8000000000000000

mynewton(@(x)x^2-2,10,3)

    ans =
    1.737194874379598

mynewton(@(x)x^2-2,10,10)

    ans =
    1.414213562373095

mynewton(@(x)7*x-exp(x),20,3)

    ans =
    17.000002792451742

mynewton(@(x)7*x-exp(x),20,10)

    ans =
    10.001956154629937

mylhospital(@(x)sin(x),@(x)x,0)

    ans =
    1

mylhospital(@(x)2-2*cos(3*x),@(x)x^2,0)

    ans =
    9

mylhospital(@(x)exp(x-1)-1, @(x)(5*x-1),1)

    ans =
    0

```

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