
`%Homework 3/27 Problem 1b: Golden Ratio`

`%Allow the user to define the numbers in the sequence`
`x(1)=input('Enter the first number of the sequence\n');`
`x(2)=input('Enter the second number of the sequence\n');`

`%The next number in the sequence is 3`

`k=3;`

`%Define the function x(k) using the Fibonacci equation`

`x(k)=x(k-1)+x(k-2);`

`%Create a while loop that will stop the iterations when the difference`
`%between the ratios approaches 0.001`

`while abs(x(k)/x(k-1) - x(k-1)/x(k-2))>0.001`

`%Define k=k+1 so that k will increase by one with each iteration`

`k=k+1;`

`%Put in the function x(k) again, this time in the loop`

`x(k)=x(k-1)+x(k-2);`

`end`

`%Display the value of x- again as a column because of preference`

`x'`

Error using input

Cannot call INPUT from EVALC.

Error in hwfibonacci1b_3_27 (line 4)

x(1)=input('Enter the first number of the sequence\n');

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