**1. Your report should be written in English. The report should include the code (with comments or notes), the resulted figure (or print-screen), and a short discussion on the result if necessary.**

**2. Upload: .m file, .fig file and .doc report**

**3. Pack all the above files and send to 463621653@qq.com**

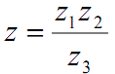
**4. The format of pack name: LabX\_ID\_Name.zip, X is the experiment number.**

**5. Deadline: Monday in next week.**

**Complete the following tasks:**

**1. In command window, do the following calculation：(you can upload the print-screen)**

C:\Users\Administrator\AppData\Roaming\Tencent\Users\463621653\QQ\WinTemp\RichOle\G1MC)2(5J9V9YZ}{80)3[VU.png



**Calculate the real part, image part, amplitude, and angle of *Z*.**

**2、Create .m file which completes the above task. Furthermore, in this .m file, complete the following tasks:**

**-Calculate the multiplication of the two vectors: (z1,z2)T and（z2,z3）**

**-Calculate the amplitude and angle of each entry of the resulted matrix.**

**-Set the entry on the first row and second column to ‘1’.**

**3、Create .m file which completes the following tasks:**

**-plot 4 subfigures in one figure window: sin（x），cos（x）、log（x），and a subfigure with all the above three curves.**

**-Each subfigure should have title, x/y-axis label, legend**

**-In the last subfigure, each curve should have different mark and line types.**

**4、Generating the Fabonacci sequence with ‘for’ statement and ‘while’ statement, respectively. Definition of Fabonacci sequence:**

**F(1)=1，F(2)=1, F(n)=F(n-1)+F(n-2)；**

**Create two functions.**

**Input: an integer n.**

**Output: A Fabonacci of length n.**

**Each uses ‘for’ or ‘while’. The two functions should also plot the generated sequence.**

**Tips: a function can call itself.**