```
(3) it 3 = i8 -4 i21+i
                  1-4i+i=1-3i
    : Re 3=1, Im3=-3 arg 3= arctan(-3), == 1+3i
   41, 12 }= ( 1+131)5
               = ( COS $ + i sin $)5
               = (35\frac{5}{3}11 + 1516\frac{5}{3}11)
= \frac{1}{2} - \frac{15}{3}(
          -45(\cos(\frac{\pi}{4})+(\sin(\frac{\pi}{4})))
             4/2 (Cos(-2)+(sin(-4)) (Cos(\frac{\pi}{4})+(sin(\frac{\pi}{4}))
                   \cos(-\frac{\pi}{12}) + i \sin(-\frac{\pi}{12})
                  cos\left(\frac{7}{12}\right) + isin\left(\frac{7}{12}\right)
           = \cos\left(-\frac{\pi}{6}\right) + i' \sin\left(-\frac{\pi}{6}\right)
     三角形( )= cos(-台)+(sin(-台), 指数形成 3=ei(-台)
   Q1, 1218ti = }
       3 = cos/00+ isin/00
             cos 90 - isin 90
            COS/00 + (sin/00
              cos (-90) + (sin(-90)
```

$$\frac{3.(1), \int \frac{1}{2} \frac{1}{2} = (2(\cos(-\frac{\pi}{6}) + (\sin(-\frac{\pi}{6})))^{1/2}}{= 2^{1/2}(\cos(-2\pi) + (\sin(-2\pi))}$$

$$= 4096$$

$$= (6)^{\frac{7}{4}} e^{i(\frac{\frac{7}{4}+2k\pi}{2})}, k = 0 \times 1$$

$$R \left[\frac{1}{4} \right] = (6)^{\frac{7}{4}} e^{\frac{17}{8}i} \times (6)^{\frac{7}{4}} e^{\frac{17}{8}i}$$

4
$$\frac{1^{2}-3(1+i)}{3}+\frac{1}{5}(i=0)$$

$$\frac{1^{2}-3(1+i)}{3}+\frac{1}{4}(1+i)^{2}+\frac{1}{5}(i=0)$$

$$\frac{1}{3}-\frac{3}{5}(1+i)^{2}=-\frac{1}{5}i$$

$$\frac{1}{3}-\frac{3}{5}(1+i)=\frac{1}{5}e^{-\frac{1}{4}}\sqrt{\frac{3}{5}}e^{\frac{1}{4}}$$

$$\frac{1}{3}-\frac{3}{5}(1+i)=\frac{1}{3}-\frac{1}{5}(\frac{1}{3}\sqrt{\frac{3}{5}}i-\frac{1}{5})$$

$$\frac{1}{3}+\frac{3}{5}(1+i)=\frac{1}{3}-\frac{1}{5}(\frac{1}{3}\sqrt{\frac{3}{5}}i-\frac{1}{5})$$

$$\frac{1}{3}+\frac{3}{5}(1+i)=\frac{1}{3}-\frac{1}{5}(\frac{1}{3}\sqrt{\frac{3}{5}}i-\frac{1}{5})$$

$$\frac{5.13!}{1-e^{10}} \cdot i23 - e^{10} + e^{2i0} + \dots + e^{ni0}$$

$$\frac{1-62i\theta}{1-62i\theta}$$

$$= \frac{e^{i\theta} + e^{2i\theta} - e^{-(n+2)i\theta} - e^{-(n+2)i\theta}}{1 - e^{2i\theta} - e^{-(n+2)i\theta} - e^{-(n+2)i\theta}}$$

$$= \frac{(\cos\theta + \cos 2\theta - \cos(n^4)\theta - \cos(n^{2}2\theta)) + i(\sin\theta + \sin\theta - \sin(n+1)\theta}{1 - \cos(n+2)\theta}$$

$$= \frac{1}{1 - e^{-(\theta)}}$$

$$= \frac{1}{$$

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