```
2, = 3+2, 2= 2-5;
       a) 21 + 32 = 9 + 123 - 4 + 23 +5 = 10 + 143
       6) Re(2,-22) = Re(6-15; +4; +10) = Re(16-11;) = 16
       c) | 2 =, + |m(22) | = | 6-43-5|=11-41= \1+42 = \17
             \frac{\overline{z}_2 - \overline{j} |z_1 + 2\overline{j}|}{z_1} = \frac{2 + 5\overline{j} - \overline{j} |3 + 4\overline{j}|}{3 + 2\overline{j}} = \frac{3 - 2\overline{j}}{3 - 2\overline{j}} = \frac{6 - 4\overline{j}}{13} = \frac{6}{13} = \frac{6}{13}
        2,2, 2,6 C
2.
   a) |2,+22 |= |2, |+|22 |
           L= 11+2; 13+4; 1= 14+6; 1= 116+36 = 152 = 2 13
           R= 11+201 + 13+41 = 5 + 5
        vige mir zachodz dla devoluych hiozb
    b) Re(2,-22) = Re(2) - Re(22)
           nich L = Re((1+2i)-(3+4i)) = Re(3+4i +6i -8) = Re(-5+10i) = -5
                    R = Re(1+25) - Re(3+45) = 1.3=3
                       L = R vigs mic jest toriscemosaia,
   c) 2 - \bar{2} \stackrel{?}{=} 2_{\lambda} \ln(2)
           L=(a+b) - (a-b) = a+b) -a+b) = 2b) = 2jlm(2) = R
3
    a) -e = e(\cos(\pi) + \delta \sin(\pi)) = ee^{\pi\delta}
           \pi_{i} = \pi \left( \cos\left(\frac{\pi}{2}\right) + \sin\left(\frac{\pi}{2}\right) \right) = \pi e^{\frac{\pi}{2}b}
        3-3 = 3\sqrt{2} (cos(-\frac{\pi}{4}) + sin(-\frac{\pi}{4})) = 3\sqrt{2} e
           5/2; -5/2 = 10(cos(3/2) + j sin(3/2) = 10 e 2/3
   c) 1 + \sqrt{3} = 2(\cos(\frac{\pi}{3}) + \sin(\frac{\pi}{3})) = 2e^{\frac{\pi}{3}}
          \sqrt{6} - \sqrt[3]{2} = 2\sqrt[3]{2} \left( \frac{\sqrt{3}}{2} - \frac{1}{2} \right) = 2\sqrt{2} \left( \cos(-\frac{\pi}{6}) + \sin(-\frac{\pi}{6}) \right) = 2\sqrt{2} e^{-\frac{\pi}{6}i}
```





