



KURS LICZB ZESPOLONYCH

Lekcja 5

Pierwiastki z liczb zespolonych

Odpowiedzi do zadania domowego

Część 1: TEST

- 1) c
- 2) d
- 3) b
- 4) b
- 5) d
- 6) d
- 7) b
- 8) d
- 9) c
- 10) a

Część 2: ZADANIA

$$\begin{aligned} 1) & \begin{cases} 1 \\ -\frac{1}{2} + i\frac{\sqrt{3}}{2} \\ -\frac{1}{2} - i\frac{\sqrt{3}}{2} \end{cases} \\ 2) & \begin{cases} \frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2} \\ -\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2} \\ \frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2} \\ -\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2} \end{cases} \end{aligned}$$

$$3) \left\{ \begin{array}{l} \sqrt[4]{4} \left(\frac{1}{2} + i \frac{\sqrt{3}}{2} \right) \\ \sqrt[4]{4} \left(-\frac{\sqrt{3}}{2} + \frac{1}{2} i \right) \\ \sqrt[4]{4} \left(\frac{\sqrt{3}}{2} - \frac{1}{2} i \right) \\ \sqrt[4]{4} \left(-\frac{1}{2} - i \frac{\sqrt{3}}{2} \right) \end{array} \right.$$

$$4) \left\{ \begin{array}{l} 2i \\ -\sqrt{3} - i \\ \sqrt{3} - i \end{array} \right.$$

$$5) \left\{ \begin{array}{l} \sqrt[3]{2} \left(\cos \frac{7}{18} \pi + i \sin \frac{7}{18} \pi \right) \\ \sqrt[3]{2} \left(\cos \frac{19}{18} \pi + i \sin \frac{19}{18} \pi \right) \\ \sqrt[3]{2} \left(\cos \frac{31}{18} \pi + i \sin \frac{31}{18} \pi \right) \end{array} \right.$$

$$6) \left\{ \begin{array}{l} 1 + i \\ \sqrt{2} \left(\cos \frac{11}{12} \pi + i \sin \frac{11}{12} \pi \right) \\ \sqrt{2} \left(\cos \frac{19}{12} \pi + i \sin \frac{19}{12} \pi \right) \end{array} \right.$$

KONIEC