



(1) 次の計算をせよ。

①  $(3+2i) + (7-6i)$

③  $\frac{1+2i}{2+3i}$

$$\begin{aligned} \textcircled{1} \quad & 3+7+2i-6i \\ & = \underline{10-4i} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \frac{(1+2i)(2-3i)}{(2+3i)(2-3i)} \\ & = \frac{2-3i+4i+6}{4+9} \\ & = \underline{\frac{8+i}{13}} \end{aligned}$$

②  $(2+3i)(3+2i)$

④  $\sqrt{-3}\sqrt{-6}$

$$\begin{aligned} \textcircled{2} \quad & 6+4i+9i-6 \\ & = \underline{13i} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \sqrt{3}i \cdot \sqrt{6}i \\ & = -\sqrt{18} \\ & = \underline{-3\sqrt{2}} \end{aligned}$$

(2) 次の計算をせよ。

①  $(5+3i) - (-8+7i)$

③  $\frac{3-2i}{3+i}$

$$\begin{aligned} \textcircled{1} \quad & 5+3i+8-7i \\ & = \underline{13-4i} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \frac{(3-2i)(3-i)}{(3+i)(3-i)} \\ & = \frac{9-3i-6i-2}{3+1} \\ & = \underline{\frac{7-9i}{4}} \end{aligned}$$

②  $(3-7i)(5+2i)$

④  $\sqrt{-4}\sqrt{-3}$

$$\begin{aligned} \textcircled{2} \quad & 15+6i-35i+14 \\ & = \underline{29-29i} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 2i \cdot \sqrt{3}i \\ & = \underline{-2\sqrt{3}} \end{aligned}$$