

$$\textcircled{1} (2+5i) + (7-4i)$$

$$\underline{2+5i} + \underline{7-4i}$$

$$\boxed{9+i}$$

$$\textcircled{2} (2+5i) - (7-4i)$$

$$\underline{2+5i} - \underline{7+4i}$$

$$\boxed{9i-5}$$

$$\textcircled{3} 3i(4i+6) \text{ } \cdot \text{Distribute}$$

$$12i^2 + 18i$$

$$12(-1) + 18i$$

$$\boxed{18i-12}$$

$$\textcircled{4} (2i-7)(3i+5) \text{ } \cdot \text{Foil}$$

$$6i^2 + 10i - 21i - 35$$

$$6i^2 - 11i - 35$$

$$6(-1) - 11i - 35$$

$$\underline{-6} - 11i - \underline{35}$$

$$\boxed{-11i-41}$$

$\textcircled{5}$  find conjugate and its product.

$$(3+2i) \quad \boxed{(3-2i)}$$

$$9 - 4i^2$$

$$9 - 4(-1)$$

$$9 + 4$$

$$\boxed{13}$$

$$\textcircled{6} (5-6i) \quad \boxed{(5+6i)}$$

$$25 - 36i^2$$

$$25 - 36(-1)$$

$$25 + 36$$

$$\boxed{61}$$

$$\textcircled{7} (6-i) \quad \boxed{(6+i)}$$

$$36 - i^2$$

$$36 - (-1)$$

$$36 + 1$$

$$\boxed{37}$$

$$\textcircled{8} (7+4i) \quad \boxed{(7-4i)}$$

$$49 - 16i^2$$

$$49 - 16(-1)$$

$$49 + 16$$

$$\boxed{65}$$