

$$9) \frac{2i}{3-9i} \frac{(3+9i)}{(3+9i)} = \frac{6i-18}{9+27i-27i-81i^2}$$

$$= \frac{6i-18}{9+81}$$

$$= \frac{-18+6i}{90} = \frac{-3+i}{15}$$

$$11) \frac{5i}{6+8i} \frac{(6-8i)}{(6-8i)} = \frac{30i-40i^2}{36-48i+48i-64i^2}$$

$$= \frac{40+30i}{100} = \frac{4+3i}{10}$$

$$13) \frac{-1+5i}{-8-7i} \frac{(-8+7i)}{(-8+7i)}$$

$$\frac{8-7i-40i+35i^2}{64-56i+56i-49i^2}$$

$$\frac{8-47i-35}{64+49}$$

$$\frac{-27-47i}{113}$$

$$10) \frac{i}{2-3i} \frac{(2+3i)}{(2+3i)} = \frac{2i+3i^2}{4+6i-6i-9i^2}$$

$$= \frac{2i-3}{4+9}$$

$$= \frac{-3+2i}{13}$$

$$12) \frac{10}{10+5i}$$

$$14) \frac{-2-9i}{-2+7i} \frac{(-2-7i)}{(-2-7i)}$$

$$\frac{4+14i+18i+63i^2}{4+14i-14i-49i^2}$$

$$\frac{4+32i-63}{4+49}$$

$$\frac{-59+32i}{53}$$