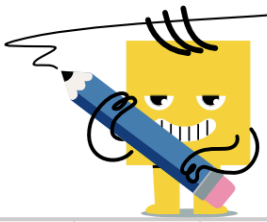
Name

Complex Numbers - Division



1 Divide these complex numbers and simplify

$$\frac{4-4i}{2-6i}$$

A $\frac{4+2i}{5}$ B $\frac{6+2i}{5}$ C $\frac{4+4i}{5}$

D $\frac{4-2i}{5}$ E $\frac{4+2i}{-5}$ F $\frac{4+1i}{5}$

2 Divide these complex numbers and simplify

$$\frac{5+3i}{-5+4i}$$

A $\frac{-13-36i}{41}$ B $\frac{-13-35i}{41-1i}$ C $\frac{13-35i}{41}$

D $\frac{-13-35i}{41-2i}$ E $\frac{-13-35i}{41}$ F $\frac{-15-35i}{41}$

3 Divide these complex numbers and simplify

$$\frac{-5+3i}{3-6i}$$

A $\frac{-11-7i}{15}$ B $\frac{-13-7i}{15}$ C $\frac{-11-7i}{15+2i}$

D $\frac{11-7i}{15}$ E $\frac{-11-7i}{14}$ F $\frac{-11-6i}{15}$

4 Divide these complex numbers and simplify

$$\frac{4+4i}{-3+4i}$$

A $\frac{4-28i}{25}$ B $\frac{2-28i}{25}$ C $\frac{4-28i}{-25}$

D $\frac{4+28i}{25}$ E $\frac{-4-28i}{25}$ F $\frac{4-30i}{25}$

5 Divide these complex numbers and simplify

$$\frac{5+4i}{5-5i}$$

A $\frac{1+10i}{10}$ B $\frac{1+9i}{10-1i}$ C $\frac{1+9i}{9}$

D $\frac{1+7i}{10}$ E $\frac{-1+9i}{10}$ F $\frac{1+9i}{10}$

6 Divide these complex numbers and simplify

$$\frac{-5-5i}{-5+5i}$$

A $\frac{1i}{1-1i}$ B $\frac{1i}{1+2i}$ C $2+1i$

D $-1i$ E $\frac{1i}{2}$ F $1i$

7 Divide these complex numbers and simplify

$$\frac{-5+5i}{5-3i}$$

A $\frac{-20+5i}{19}$ B $\frac{-20+5i}{15}$ C $\frac{-20+3i}{17}$

D $\frac{-20+5i}{17}$ E $\frac{-22+5i}{17}$ F $\frac{-20+4i}{17}$

8 Divide these complex numbers and simplify

$$\frac{-3+5i}{-3-4i}$$

A $\frac{-9-27i}{25}$ B $\frac{11-27i}{25}$ C $\frac{-11-27i}{25}$

D $\frac{-11-28i}{25}$ E $\frac{-11-27i}{-25}$ F $\frac{-12-27i}{25}$