

# Personal Skills 1

## Dividing the complex number by multiplying the inverse of the divisor

Learning outcomes. Deliberate write chart and find the absolute value of complex number in the form  $a + bi$ , or  $(a, b)$  and the properties of the complex to use in solving the problem.

Intended destination Find the quotient of the complex numbers.

Name ..... Class. ....No.....

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1. Find the quotient of the complex following by multiplying the inverse of the divisor

1. $\frac{2+i}{2-i}$	4. $\frac{3}{(2+3i)(2-3i)}$
2. $\frac{3+4i}{1+2i}$	5. $\frac{i+i^2+i^3+i^4+1}{1+i}$
3. $\frac{-5i}{3+i}$	6. $\left(\frac{4i^{11}-i}{1+2i}\right)^2$



2. Find the values of  $x, y$  from this equation.

1. $\frac{32+xi}{y+3i} = -4i+5$	2. $\frac{19+yi}{x+2i} = 5-7i$
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Summary score

Score 10 points made ..... points

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