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# **Division with Complex Numbers**

# Worksheet 1

Answer each of the following without a calculator, using the boxes provided for your answers.

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Given  $z_1=3+4i$  and  $z_2=1+2i$ , find:

- a)  $z_1 \div z_2$
- b)  $z_2 \div z_1$

## Question 2

Given  $z_2 = -2 + 3i$  and  $z_4 = 5 + i$ , find:

- a)  $z_3 \div z_4$
- b)  $z_4 \div z_3$

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Question 3

Given  $z_5=6-2i$  and  $z_6=8i$ , find:

- a)  $z_5 \div z_6$
- b)  $z_6 \div z_5$

### Question 4

Given  $z_1 = 1 + 3i$ ,  $z_2 = 4 - i$  and  $z_3 = 5 + 7i$ , find:

$$z_1 + z_2 \div z_3$$

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# Question 5

Given  $z_1 = 5 - 3i$ ,  $z_2 = 4i$  and  $z_3 = 1 + 2i$ , find:

$$3z_1 - \frac{z_2}{2z_3}$$