

**Edexcel (U.K.) Pre 2017**

**Questions By Topic**

**FP1 Chap01 Complex Numbers**

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1. 
$$z = 5 - 3i, \quad w = 2 + 2i$$

Express in the form  $a + bi$ , where  $a$  and  $b$  are real constants,

(a)  $z^2$ , (2)

(b)  $\frac{z}{w}$ . (3)

Q1

(Total 5 marks)

































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7. 
$$z = -24 - 7i$$

(a) Show  $z$  on an Argand diagram. (1)

(b) Calculate  $\arg z$ , giving your answer in radians to 2 decimal places. (2)

It is given that

$$w = a + bi, \quad a \in \mathbb{R}, b \in \mathbb{R}$$

Given also that  $|w| = 4$  and  $\arg w = \frac{5\pi}{6}$ ,

(c) find the values of  $a$  and  $b$ , (3)

(d) find the value of  $|zw|$ . (3)





