

MATH198 Solution Sheet 1

1. Given that $z_1 = 3 - 2i$ and $z_2 = 2 + i$

(a) determine

(i) $|z_1|$, (ii) $\operatorname{Re} z_1$, (iii) $\operatorname{Im} z_2$.

$$(i) |z_1| = \sqrt{3^2 + (-2)^2} = \underline{\underline{\sqrt{13}}}. \quad \text{Note: Not } \sqrt{3^2 + (-2i)^2}.$$

$$(ii) \operatorname{Re} z_1 = \underline{\underline{3}}$$

$$(iii) \operatorname{Im} z_2 = \underline{\underline{1}}. \quad \text{By definition, } \operatorname{Im}(a + ib) = b.$$

(b) Determine in the form $a + ib$

(i) $2z_1 + 3z_2$, (ii) $z_1 z_2$, (iii) $\frac{1}{z_1}$, (iv) $\frac{z_1}{z_2}$.

$$(i) 2z_1 + 3z_2 = 2(3 - 2i) + 3(2 + i) = 6 - 4i + 6 + 3i = \underline{\underline{12 - i}}$$

$$(ii) z_1 z_2 = (3 - 2i)(2 + i) = 6 + 3i - 4i - 2i^2 = \underline{\underline{8 - i}}$$

$$(iii) \frac{1}{z_1} = \frac{1}{3 - 2i} = \frac{1}{3 - 2i} \frac{3 + 2i}{3 + 2i} = \frac{3 + 2i}{9 + 4} = \underline{\underline{\frac{3}{13} + \frac{2}{13}i}}$$

$$(iv) \frac{z_1}{z_2} = \frac{3 - 2i}{2 + i} = \frac{(3 - 2i)(2 - i)}{(2 + i)(2 - i)} = \frac{4 - 7i}{5} = \underline{\underline{\frac{4}{5} - \frac{7}{5}i}}$$

(c) Find the complex conjugate of $z_1 - z_2$.

Taking the complex conjugate means reversing the sign of the imaginary part:

$$z_1 - z_2 = (3 - 2i) - (2 + i) = 1 - 3i \quad \Rightarrow \quad \underline{\underline{(z_1 - z_2)^* = 1 + 3i}}$$

2. Simplify

(i) i^6 , (ii) $(1 + i)(1 - i)$, (iii) i^{-5} .

$$(i) i^6 = i^4 i^2 = 1 \times (-1) = \underline{\underline{-1}}$$

$$(ii) (1 + i)(1 - i) = 1 + i - i - i^2 = \underline{\underline{2}}$$

$$(iii) i^{-5} = i^{-4} i^{-1} = \frac{1}{i} = \underline{\underline{-i}}$$

$-i$ is a "better" answer than $\frac{1}{i}$, (because $-i$ fits the standard form $a + ib$).

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M Tight



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