

EXERCISE 3.1

1. Express each of the following complex numbers in the form $a + bi$.

- a) $5 + \sqrt{-4}$
- b) $1 - \sqrt{-9}$
- c) $6 - \sqrt{-2}$
- d) $x + \sqrt{-16y^2}$

2. Simplify each of the following.

- a) i^4
- b) $\frac{1}{i^4}$
- c) $(i)^{2n}$
- d) $(i)^{4n+1}$

3. Simplify each of the following.

- a) $(4 + 5i) + (3 - 2i)$
- b) $(8 - 6i) - (2 - 5i)$
- c) $2i(3 - 2i)$
- d) $(3 - 4i)^2$

4. Express each of the following in the form $a + bi$.

- a) $\frac{i}{3 - i}$
- b) $\frac{2 + i}{3 + i}$
- c) $\frac{3 - i}{1 - 2i}$
- d) $\frac{2 - i}{(2 + i)^2}$

5. Find the values of a and b in each of the following equations.

- a) $a + bi = (3 - 2i)^2$
- b) $a + b + i(a - b) = 3 + 5i$
- c) $(1 + 2i)(a + bi) = 7 - i$

6. Given that $z = -2 + i$, express $z + \frac{1}{z}$ in the form $a + bi$.

7. Given that $z = 2 - 3i$, express $\frac{z}{1 - z^2}$ in the form $a + bi$.

Complex Number Exercises

JR Anderson



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