



MATHS

BOOKS - INDEPENDENTLY PUBLISHED

MATHS (ENGLISH)

COMPLEX NUMBERS

Examples

1. Evaluate $(5 - 7i) + (2 + 4i)$.



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2. Evaluate $(4 + 5i)(2 - 3i)$



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3. Evaluate $\frac{2 - 7i}{3 + 5i}$



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Exercise

1. $i^{29} =$

A. 1

B. i

C. $-i$

D. -1

Answer: B



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2. Evaluate $(2 + 3i)(4 - 5i)$.

A. $-7 - 23i$

B. $-7 + 2i$

C. $23 - 7i$

D. $23 + 2i$

Answer: D



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3. Evaluate $\frac{i}{2-i}$.

A. $-1 + \frac{1}{2}i$

B. $\frac{1}{5} - \frac{2}{5}i$

C. $-\frac{1}{5} + \frac{2}{5}i$

D. $-1 + 2i$

Answer: C



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4. If $z = 8 - 2i$, $z^2 =$

A. $60 - 32i$

B. $64 + 4i$

C. $64 - 4i$

D. 60

Answer: A



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5. IF z is the complex number shown in the figure , which of the following points could be iz ?



A. A

B. B

C. C

D. D

Answer: B



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6. which of the following is the modulus of $2 + i$?

A. $\sqrt{2}$

B. 2

C. $\sqrt{3}$

D. $\sqrt{5}$

Answer: D



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