



Class 11 Mathematics | Complex Numbers And Quadratic Equations

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The value of i^{27} is:

A. -1 B. 1 C. i D. -i

2. The conjugate of $3-4i$ is:

A. $4-3i$ B. $-3-4i$ C. $3+4i$ D. $-3+4i$

3. The modulus of $-5+12i$ is:

A. 13 B. 17 C. $\sqrt{17}$ D. 7

4. $(2+3i)+(4-5i)$ equals:

A. $-2-2i$ B. $-2+8i$ C. $6-2i$ D. $6+8i$

5. $(1+i)^2$ equals:

A. 2 B. $-2i$ C. $1+2i$ D. $2i$

6. The real part of $(2+i)(3-2i)$ is:

A. 8 B. -8 C. 4 D. 6

7. $1/i$ equals:

A. -1 B. -i C. i D. 1

8. $(3+4i)/(1+i)$ equals:

A. $3+4i$ B. $(-1+7i)/2$ C. $7+i$ D. $(7+i)/2$

9. If $x+iy=4-3i$, then $x+y$ equals:

A. 7 B. 1 C. -1 D. -7

10. The imaginary part of $(2-3i)^2$ is:

A. 5 B. -5 C. 12 D. -12

11. If $z=2-i$, then z times its conjugate is:

A. 3 B. -5 C. $4-i$ D. 5

12. Which complex number is purely imaginary?

A. $1+i$ B. 7 C. $-7i$ D. $7-i$

13. If $z+\text{conjugate}(z)=10$, the real part of z is:

A. 10 B. 5 C. 0 D. -5

14. The point representing $-2+3i$ lies in quadrant:

A. III B. II C. I D. IV

15. The modulus of $(1+i)/(1-i)$ is:

A. 1 B. 2 C. $\sqrt{2}$ D. 0

ANSWER KEY — check after completing all 15 questions

1.D 2.C 3.A 4.C 5.D 6.A 7.B 8.D 9.B 10.D 11.D 12.C 13.B 14.B 15.A

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper