

Student Name: _____ Score: _____

Complex Numbers Trivia

1. What is the conjugate of $-a + ib$?

Answer: _____

2. If the real part of a complex number is zero, then what would you say about the complex number?

Answer: _____

3. What is the value of $|x + iy|$?

Answer: _____

4. If $z = 2 + 3i$ and \bar{z} is its conjugate, then what is the value of \bar{z} ?

Answer: _____

5. What is the value of i^2 ?

Answer: _____

6. What is the value of i^{100} ?

Answer: _____

7. What is the value of ω^3 ?

Answer: _____

8. What is the value of $1 + \omega + \omega^2$?

Answer: _____

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Answers

1. What is the conjugate of $-a + ib$?

Answer: $-a - ib$

2. If the real part of a complex number is zero, then what would you say about the complex number?

Answer: *purely imaginary*

3. What is the value of $|x + iy|$?

Answer: $\sqrt{x^2 + y^2}$

4. If $z = 2 + 3i$ and \bar{z} is its conjugate, then what is the value of \bar{z} ?

Answer: $2 - 3i$

5. What is the value of i^2 ?

Answer: -1

6. What is the value of i^{100} ?

Answer: 1

7. What is the value of ω^3 ?

Answer: 1

8. What is the value of $1 + \omega + \omega^2$?

Answer: 0