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RATIONAL AND IRRATIONAL NUMBERS WORKSHEETS

Check if the number is rational or irrational for questions 1-5

1. $79.082\overline{106}$

2. π

3. $83.396668\dots$

4. $\frac{1}{6}$

5. $10.455566\dots$

6. Which of the following statements are correct?

- a. Every rational number is an integer
- b. Every natural number is a rational number
- c. Every whole number is a natural number
- d. Every natural number is a whole number

7. At the origin of a two-dimensional plane, Sam is standing. He moves two units to the east, and three units to the north. His new position can be defined in complex form as _____

8. The square-root of $90 + 72\sqrt{2}$ is of the form $a + b\sqrt{2}$, where a and b are positive integers. The value of a+b is _____.

9. If $x = \frac{1}{2+\sqrt{3}}$, then find the value of $2 + 2x^3 - 7x^2 - 2x - 1$

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in an interesting way,
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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

ANSWERS	
1.	R
2.	I
3.	I
4.	R
5.	I
6.	b. Every natural number is a rational number d. Every natural number is a whole number
7.	$2+3i$
8.	12
9.	0