Name

Number Types (Complex) - Set Builder Definition to Classification - Real, Imaginary, and Complex Numbers

1 What type of number does this set definition represent

$$\{a+bi \mid a,b \in \mathbb{R}, b\neq 0\}$$

A	Rational Number	B	Whole Number
C	Imaginary Number	D	Irrational Number

2 What type of number does this set definition represent $\{x \mid x \in \mathbb{N}\}$

A	Natural Number
B	Irrational Number

3 What type of number does this set definition represent $\{x \mid x \in \mathbb{W}\}$

A	Irrational Number
B	Whole Number

4 What type of number does this set definition represent $\{bi \mid b \in \mathbb{R}, b\neq 0\}$

A	Pure Imaginary Number	B	Natural Number
C	Irrational Number	D	Real Number

5 What type of number does this set definition represent $\{x \mid x \in \mathbb{R}\}$

A	Whole Number	B	Irrational Number
C	Real Number	D	Natural Number

6 What type of number does this set definition represent

$$\{a+bi \mid a,b \in \mathbb{R}\}$$

A	Irrational Number	B	Complex Number
C	Whole Number	D	Natural Number

7 What type of number does this set definition represent $\{x \mid x \in \mathbb{Q}\}$

A	Natural Number	B	Rational Number
C	Irrational Number	D	Whole Number

8 What type of number does this set definition represent

$$\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$$

A	Irrational Number	B	Rational Number
C	Natural Number	D	Whole Number