



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

1 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{N}\}$$

A  $\sqrt{67}$

B 1

C  $1 + 47i$

2 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{W}\}$$

A  $1 + \frac{43i}{6}$

B 0

C  $4 + 43i$

3 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{Q}\}$$

A  $-\frac{9}{11}$

B  $\frac{71i}{9}$

C  $11i$

4 Which number would be included in this set definition

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

A  $11i$

B  $\frac{61i}{2}$

C  $\sqrt{79}$

5 Which number would be included in this set definition

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

A  $\frac{61i}{3}$

B  $\frac{2}{3}$

C  $-\frac{5}{9}$