



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 $\frac{\sqrt{97}}{8}$

B $\frac{0}{5}$

C $\sqrt{\frac{75}{3}}$

2 Which number would be included in this set definition

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

A $\frac{\sqrt{7}}{7}$

B $1 + \sqrt{11}i$

C $\frac{0}{3}$

3 Which number would be included in this set definition

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

A $\frac{\sqrt{13}i}{7}$

B $-2.\bar{6}$

C $\sqrt{\frac{12}{3}}$

4 Which number would be included in this set definition

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

A $\frac{\sqrt{31}}{3}$

B $0.\bar{8}$

C $0.\bar{6}$

5 Which number would be included in this set definition

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

A $\sqrt{59}i$

B $0.\bar{12}$

C $\sqrt{17}i$