

mth106 tma2 List of Questions

Latex formatted questions may not properly render

Q1 The set all the elements in $A = \{x \mid 2 \leq x \leq 5\}$ is _____

- ☐ {2, 3, 4, 5}
- ☐ {5, 6, 7, 9}
- ☐ {1, 2, 3, 7}
- ☐ {2, 5, 7, 8}

Q2 $b - a$ is a positive number, means _____

- ☐ $a < b$
- ☐ $a > b$
- ☐ $a \leq b$
- ☐ $a \geq b$

Q3 The set of complex number is called the _____ of the set of real numbers

- ☒ superset
- ☐ subset
- ☐ complement set
- ☐ equal

Q4 The set of _____ numbers is the complement of the set of rational numbers $\mathbb{Q}$ in the real numbers $\mathbb{R}$.

- ☒ natural
- ☐ integers
- ☐ irrational
- ☐ real

Q5 $\mathbb{N} = \{1, 2, 3, \dots\}$ is a set of _____

- ☒ natural number
- ☐ integers
- ☐ irrational number
- ☐ imaginary number

Q6 $\mathbb{Z} = \{\dots -3, -2, -1, 0, 1, 2, 3, \dots\}$ is a set of _____

- ☐ complex number
- ☐ real numbers
- ☒ integers
- ☐ Irrational numbers

Q7 Given $A=\{1, 3, 5, 7, 9, 11\}$ and $B=\{2, 4, 6, 8, 10, 12\}$, then A and B are _____ sets

- ☒ disjoint
- ☐ equal
- ☐ difference
- ☐ subset

Q8 Given $A= \{ \{2, 3\}, \{2\}, \{5,6\}, \{1, 5,7,8\} \}$, then $\{1, 5, 7,8\}$ is a/an _____ of A.

- ☒ element
- ☐ equal
- ☐ complement
- ☐ union

Q9 If $A \subset B$ and $B \subset A$, then the two sets are to be _____

- ☒ equal
- ☐ difference
- ☐ subset
- ☐ empty

Q10 Given that set $A=\{1,3,5\}$ and set $B= \{1,2,3,4,5\}$, the set A is a _____ of set B

- ☒ subset
- ☐ complement of
- ☐ union
- ☐ intersection