

Practice quiz on Sets

PUNTOS TOTALES DE 3

1. Let $A = \{1, 3, 5\}$. Is the following statement: $3 \in A$. True or false?

1 / 1 puntos

- ☒ True
☐ False

✓ Correcto

The symbol \in stands for "is an element of" and it is true that 3 is an element of A . The other two elements of A are 1 and 5.

2. Let $E = \{-1, -2, -3\}$. Compute the cardinality $|E|$ of E :

1 / 1 puntos

- ☐ -3
☒ 3
☐ E
☐ 0

✓ Correcto

Recall that the cardinality of a set is the number of elements in it. Since E has three elements (which are $-1, -2, -3$), the cardinality of E is $|E| = 3$.

3. Let $A = \{1, 3, 5\}$ and $B = \{3, 5, 10, 11, 14\}$.

1 / 1 puntos

Which of the following sets is equal to the intersection $A \cap B$?

- ☐ $\{3\}$
☒ $\{3, 5\}$
☐ $\{1, 3, 5\}$
☐ $\{3, 5, 10\}$

✓ Correcto

The intersection of two sets consists precisely of the elements they share in common. The elements 3 and 5 are in both A and B .