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Problem Explanation

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Membership and cardinality of sets

QUESTION

Let sets A and B be defined as follows.

$A = \{-23, -22, -21, -20, -19, -18\}$

B is the set of even numbers greater than or equal to 2 and less than or equal to 14

(a) Find the cardinalities of A and B .

$n(A) = \square$ $n(B) = \square$

(b) Select true or false.

	True	False
$-21 \in A$	☒	☐
$12 \in B$	☒	☐
$-18 \notin A$	☐	☒
$-3 \in B$	☐	☒

-21 is an element of A
 12 is an element of B
 -18 is not an element of A
 -3 is not an element of B

$n(A)$ = number of elements in A

$-21 \in A$ means
 -21 is an element of A

$-18 \notin A$ means
 -18 is not an element of A

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