

Valutare le seguenti affermazioni e stabilire se sono vere o false (rispondere mettendo solo una crocetta nel quadrato corrispondente alla risposta; non é necessario scrivere giustificazioni sui fogli da consegnare).

$$\forall n \in \mathbf{N}^+ \text{ risulta } n \in [-1, +\infty[\quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\exists n \in \mathbf{N}^+ : n \leq \frac{5}{2} \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\forall q \in [4, 9] \text{ risulta } q \in \mathbf{N}^+ \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\exists a \in \mathbf{Z} : a \in \left\{ -\frac{4}{3}, -2, \frac{1}{2}, \frac{15}{4} \right\} \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\forall n \in \mathbf{N} \text{ risulta } n \geq -6 \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\exists a < -2 : a \in \mathbf{Q} \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\forall n \in \mathbf{N} \text{ risulta } n^2 > 0 \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\exists a \in \{-2, -1, 0, 1, 2\} : a \in \mathbf{N}^+ \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\forall n \in \mathbf{N}^+ \text{ risulta } n > -\frac{7}{2} \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\exists n \in \mathbf{N} : n \in]-1, 0] \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\forall q \in \mathbf{Q} \text{ risulta } q > 0 \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\forall n \in \mathbf{N}^+ \text{ risulta } n^2 \geq 0 \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\exists n \in \mathbf{N} : n > 1 \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$$\forall n \in \mathbf{N}^+ \text{ risulta } 2n \in \mathbf{R} \quad \begin{array}{l} \square \text{ vero} \\ \square \text{ falso} \end{array}$$

$\exists n \in \mathbf{N}^+ : n \geq 0$ vero
 falso

$\forall n \in \{1, 2\}$ risulta $n \in \mathbf{Z}$ vero
 falso

$\exists n \in \mathbf{N} : n^2 = 4$ vero
 falso

$\forall a \leq 5$ risulta $a \in \mathbf{Q}$ vero
 falso

$\exists n \in \mathbf{N}^+ : n \in \{1, 2, 3, 4, 5\}$ vero
 falso

$\forall q \in \{4, 9\}$ risulta $q \in \mathbf{N}^+$ vero
 falso

$\exists a \in \mathbf{Z} : a \in \left\{-\frac{8}{3}, \frac{1}{2}, \frac{15}{4}\right\}$ vero
 falso

$\forall n \in \mathbf{N}$ risulta $n \in [-3, +\infty[$ vero
 falso

$\exists a \in]0, 1[: a \in \mathbf{Q}$ vero
 falso

$\forall n \in \mathbf{N}$ risulta $n^2 > -1$ vero
 falso

$\exists a \in \{1, 2\} : a \in \mathbf{N}^+$ vero
 falso

$\forall n \in \mathbf{N}^+$ risulta $n \geq 0$ vero
 falso

$\exists n \in \mathbf{N} : n \in]-1, 1[$ vero
 falso

$\forall q \in \mathbf{Q}$ risulta $q^2 > 0$ vero
 falso

$\exists q \in \mathbf{Q} : q \in [-\sqrt{2}, 5[$ vero
 falso

$\forall n \in \mathbf{N}^+$ risulta $n^2 \geq 1$ vero
 falso

$\exists n \in \mathbf{N} : n > -1$ vero
 falso

$\forall n \in \mathbf{N}^+$ risulta $n^2 \in \mathbf{R}$ vero
 falso

$\exists n \in \mathbf{N}^+ : n \geq -2$ vero
 falso

$\forall n \in \{1, 2\}$ risulta $n \in \mathbf{N}$ vero
 falso

$\exists q \in \mathbf{Q} : q^2 = -4$ vero
 falso

$\forall a \in [5, +\infty[$ risulta $a \in \mathbf{N}$ vero
 falso

$\exists n \in \mathbf{N}^+ : n \notin \{1, 2, 3, 4, 5\}$ vero
 falso

$\forall n \in \mathbf{N}^+$ risulta $n \in [3, 7]$ vero
 falso

$\exists n \in \mathbf{N}^+ : n \geq \frac{5}{2}$ vero
 falso

$\forall q \in [0, 9]$ risulta $q \in \mathbf{N}$ vero
 falso

$\exists a \in \mathbf{Z} : a \in \{-4, -2, 3, 5\}$ vero
 falso

$\forall n \in \mathbf{N}$ risulta $n \geq 6$ vero
 falso

$\exists a < -2 : a \in \mathbf{R}$ vero
 falso

$\forall n \in \mathbf{N}$ risulta $n^2 \geq 0$ vero
 falso

$\exists a \in \{1, 2\} : a \in \mathbf{N}^+$ vero
 falso

$\forall n \in \mathbf{N}^+$ risulta $n \geq -1$ vero
 falso

$\exists n \in \mathbf{N} : n \in]-1, 0[$ vero
 falso

$\forall a \in \mathbf{Z}$ risulta $-a \in \mathbf{N}$ vero
 falso

$\exists q \in \mathbf{Q} : -q \in \mathbf{N}$ vero
 falso