

E1. Precizați intervalele corespunzătoare următoarelor mulțimi:

- a) $A = \{x \in \mathbb{R} / -3 < x \leq 5\}$; b) $B = \{x \in \mathbb{R} / x \geq 7\}$; c) $C = \{x \in \mathbb{R} / x < 0\}$
 d) $\Delta = \{x \in \mathbb{R} / 0 < x < \sqrt{11}\}$; e) $E = \{x \in \mathbb{R} / x < -3\}$; f) $F = \{x \in \mathbb{R} / x > \sqrt{7}\}$
 g) $G = \{x \in \mathbb{R} / x \leq -\sqrt{5}\}$; h) $H = \{x \in \mathbb{R} / -3 \leq x \leq \sqrt{11}\}$.

E2. Scrieți sub formă de interval mulțimile:

- a) $A = \{x \in \mathbb{R} / |x| < 1\}$; b) $B = \{x \in \mathbb{R} / |x| \leq 7\}$
 c) $C = \{x \in \mathbb{R} / |x - 3| < 2\}$; d) $\Delta = \{x \in \mathbb{R} / \left|\frac{x-1}{4}\right| \leq 5\}$
 e) $E = \{x \in \mathbb{R} / \left|\frac{2x-4}{3}\right| < 11\}$.

E3. Determinați elementele mulțimilor: *#JitaruIonelBLOG*

- a) $A = \{\underline{x \in \mathbb{N}} / -4 < x \leq 3\}$
 b) $B = \{\underline{x \in \mathbb{Z}} / -4 < x \leq 3\}$
 c) $C = \{\underline{x \in \mathbb{R}} / -4 < x \leq 3\}$
 d) $\Delta = \{\underline{x \in \mathbb{R}} / |2x - 11| < 4\}$
 e) $E = \{\underline{x \in \mathbb{N}} / |x| \leq 5\}$
 f) $F = \{\underline{x \in \mathbb{Z}} / |3x - 8| \leq 10\}$
 g) $G = \{\underline{x \in \mathbb{R}} / |x| \geq 10\}$
 h) $H = \{\underline{x \in \mathbb{N}} / -1 \leq \frac{3x+8}{2} \leq 8\}$
 i) $i = \{\underline{x \in \mathbb{Z}} / -3 \leq \frac{4x-5}{3} < 5\}$
 j) $J = \{\underline{x \in \mathbb{R}} / -10 \leq \frac{4x-1}{3} \leq 10\}$.

E4. Determinați card A în cazurile:

$$A = \{x \in \mathbb{N} / -1 < x < 8\} ; B = \{x \in \mathbb{N}^* / |x+1| \leq 4\} ;$$

$$C = \{x \in \mathbb{Z} / |2x-11| \leq 7\} ; \Delta = \{x \in \mathbb{Z}^* / \left|\frac{x-9}{2}\right| < 2\}.$$