

1. $A = \{1, 2, 3\}$ ve $B = \{4, 5, 6, 7\}$ kümeleri veriliyor.
Aşağıdaki bağıntılardan kaç tanesi A dan B ye bir fonksiyondur?

- I. $\beta_1 = \{(1, 4), (2, 7), (3, 6)\}$
- II. $\beta_2 = \{(1, 6), (2, 5), (2, 7), (3, 6)\}$
- III. $\beta_3 = \{(1, 7), (3, 5)\}$
- IV. $\beta_4 = \{(2, 5), (3, 4), (1, 5)\}$
- V. $\beta_5 = \{(1, 6), (2, 6), (3, 6)\}$

A) 5 B) 4 C) 3 D) 2 E) 1

2. $A = \{1, 2, 3, 5\}$ ve $B = \{a, b, c\}$ kümeleri veriliyor.
Aşağıdaki bağıntılardan hangisi A dan B ye bir fonksiyondur?

- A) $\{(a, 1), (b, 2), (c, 3)\}$
- B) $\{(1, a), (1, b), (2, c)\}$
- C) $\{(1, a), (2, b), (3, c), (5, c)\}$
- D) $\{(5, c), (2, a), (3, b)\}$
- E) $\{(1, a), (2, b), (3, c), (a, 5)\}$

3. Aşağıdaki bağıntılardan kaç tanesi fonksiyondur?

- I. $f: \mathbb{R} \rightarrow \mathbb{Z}, \quad f(x) = \frac{x+1}{3}$
- II. $g: \mathbb{Z}^+ \rightarrow \mathbb{Z}^+, \quad g(x) = \sqrt{x-5}$
- III. $h: \mathbb{R} \rightarrow \mathbb{R}^+, \quad h(x) = \frac{2x^2+1}{x^2+1}$
- IV. $k: \mathbb{N} \rightarrow \mathbb{R}, \quad k(x) = 5x$
- V. $t: \mathbb{Z} \rightarrow \mathbb{Z}, \quad t(x) = |x-1|$

A) 1 B) 2 C) 3 D) 4 E) 5

4. Aşağıdaki bağıntılardan hangisi fonksiyon belirtir?

- A) $f: \mathbb{R} \rightarrow \mathbb{R}, \quad f(x) = \frac{x-2}{2x+1}$
- B) $f: \mathbb{N} \rightarrow \mathbb{N}, \quad f(x) = \frac{x-2}{2x+1}$
- C) $f: \mathbb{Z} \rightarrow \mathbb{Z}, \quad f(x) = \frac{x-2}{2x+1}$
- D) $f: \mathbb{N} \rightarrow \mathbb{R}, \quad f(x) = \frac{x-2}{2x+1}$
- E) $f: \mathbb{R} \rightarrow \mathbb{N}, \quad f(x) = \frac{x-2}{2x+1}$

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Cevaplar :

1)C, 2)C, 3)C, 4)D,