

**MATEMATİK BÖLÜMÜ**  
**MAT 111 Temel Matematiğe Giriş**

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**ÇALIŞMA SORULARI**

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Aşağıda  $\mathbb{R} \times \mathbb{R} = \mathbb{R}^2$  kümesinin çeşitli alt kümeleri verilmiştir. Her birinin grafiğini  $xy$ -düzleminde çiniz.

$\{(x, y) \in \mathbb{R}^2 : x > 1\}$	,	$\{(x, y) \in \mathbb{R}^2 : y \leq 1\}$
$\{(x, y) \in \mathbb{R}^2 : x < 1 \text{ ve } y \leq -1\}$	,	$\{(x, y) \in \mathbb{R}^2 : x < 1 \text{ veya } y \leq -1\}$
$\{(x, y) \in \mathbb{R}^2 : x < 1 \text{ ya da } y \leq -1\}$	,	$\{(x, y) \in \mathbb{R}^2 : x = 0\}$
$\{(x, y) \in \mathbb{R}^2 : y = 0\}$	,	$\{(x, y) \in \mathbb{R}^2 : x = 0 \text{ ve } y = 0\}$
$\{(x, y) \in \mathbb{R}^2 : x = 0 \text{ veya } y = 0\}$	,	$\{(x, y) \in \mathbb{R}^2 : xy = 0\}$
$\{(x, y) \in \mathbb{R}^2 : xy > 0\}$	,	$\{(x, y) \in \mathbb{R}^2 : xy < 0\}$
$\{(x, y) \in \mathbb{R}^2 : \frac{x}{y} = 0\}$	,	$\{(x, y) \in \mathbb{R}^2 : \frac{x}{y} > 0\}$
$\{(x, y) \in \mathbb{R}^2 : \frac{x}{y} < 0\}$	,	$\{(x, y) \in \mathbb{R}^2 : \frac{x}{y} \geq 0\}$
$\{(x, y) \in \mathbb{R}^2 : \frac{y}{x} \leq 0\}$	,	$\{(x, y) \in \mathbb{R}^2 : \frac{y}{x} = 1\}$
$\{(x, y) \in \mathbb{R}^2 : \frac{y}{x} < 1\}$	,	$\{(x, y) \in \mathbb{R}^2 : \frac{y}{x} > 1\}$
$\{(x, y) \in \mathbb{R}^2 : x^2 = y^2\}$	,	$\{(x, y) \in \mathbb{R}^2 :  x  =  y \}$
$\{(x, y) \in \mathbb{R}^2 : x^2 = 4 \text{ ve } y^2 = 9\}$	,	$\{(x, y) \in \mathbb{R}^2 : x^2 = 4 \text{ veya } y^2 = 9\}$
$\{(x, y) \in \mathbb{R}^2 : x^2 < 4 \text{ ve } y^2 > 9\}$	,	$\{(x, y) \in \mathbb{R}^2 : x^2 < 4 \text{ veya } y^2 > 9\}$
$\{(x, y) \in \mathbb{R}^2 : (x - y)^2 = 4\}$	,	$\{(x, y) \in \mathbb{R}^2 : (x^2 - 1) = 4y^2\}$
$\{(x, y) \in \mathbb{R}^2 :  x  - y = 4\}$	,	$\{(x, y) \in \mathbb{R}^2 : x - 2 y  = 4\}$
$\{(x, y) \in \mathbb{R}^2 :  x  -  y  = 4\}$	,	$\{(x, y) \in \mathbb{R}^2 :  x  - 2 y  = 4\}$
$\{(x, y) \in \mathbb{R}^2 :  x  +  y  = 4\}$	,	$\{(x, y) \in \mathbb{R}^2 :  x  + 2 y  = 4\}$
$\{(x, y) \in \mathbb{R}^2 :   x  - y  = 1\}$	,	$\{(x, y) \in \mathbb{R}^2 :   y  + x  = 4\}$
$\{(x, y) \in \mathbb{R}^2 : x^2 > 1 \text{ ve } y \leq 1\}$	,	$\{(x, y) \in \mathbb{R}^2 : x^2 \leq 1 \text{ ve } y \geq 1\}$
$\{(x, y) \in \mathbb{R}^2 : y^2 > 4 \text{ ve } x \leq 4\}$	,	$\{(x, y) \in \mathbb{R}^2 : y^2 \leq 4 \text{ ve } x \leq 1\}$
$\{(x, y) \in \mathbb{R}^2 : (x - y)^2 = 4\}$	,	$\{(x, y) \in \mathbb{R}^2 : (x + y)^2 = 9\}$
$\{(x, y) \in \mathbb{R}^2 : (x - y - 1)^2 < 4\}$	,	$\{(x, y) \in \mathbb{R}^2 : (x + y - 1)^2 > 9\}$
$\{(x, y) \in \mathbb{R}^2 : \frac{x}{y-x} > 0\}$	,	$\{(x, y) \in \mathbb{R}^2 : \frac{y}{x-y} \leq 0\}$

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*Durumlar iyi değil. Yine de sağlıcakla kalın...*