

1.

Analitik düzlemde,

$$x - y + 1 \geq 0$$

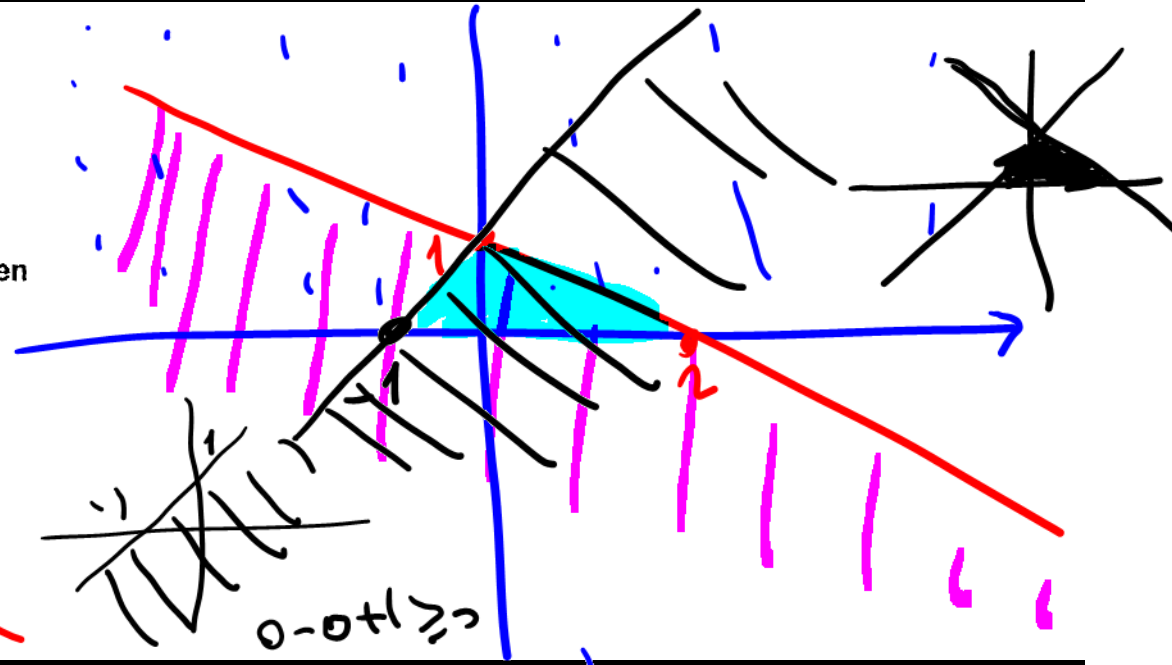
$$2y + x - 2 \leq 0$$

$$y \geq 0$$

eşitsizlik sisteminin çözüm kümesini ifade eden grafik aşağıdakilerden hangisidir?

$$0+0-2 \leq 0$$

$$-2 \leq 0$$

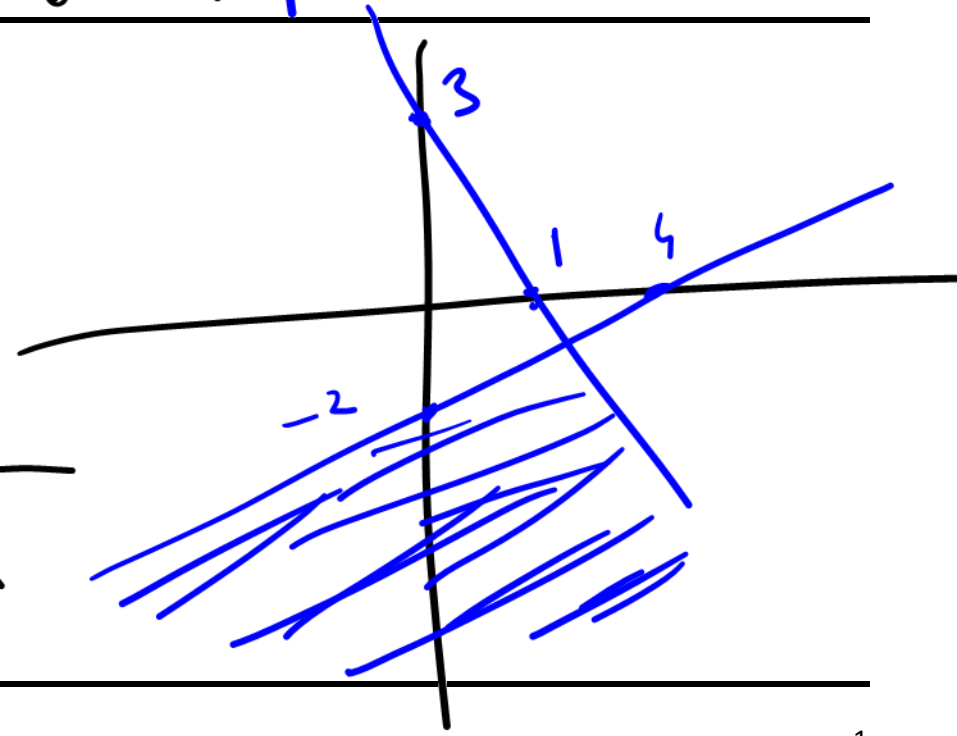
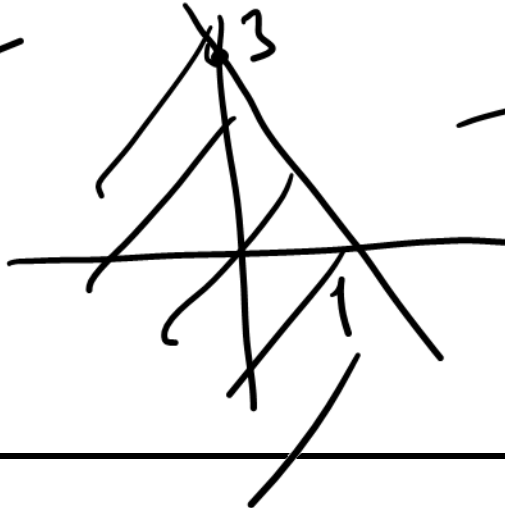
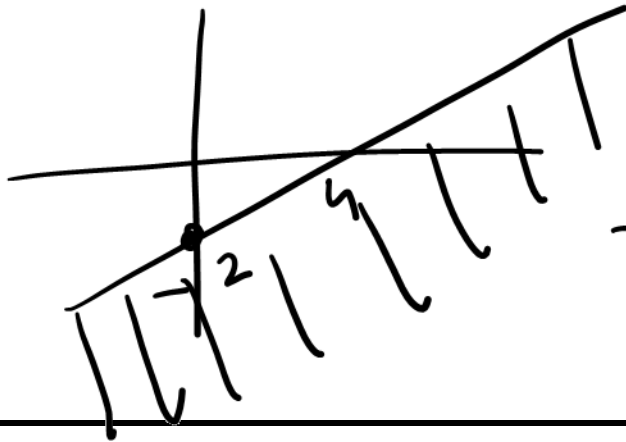


2.

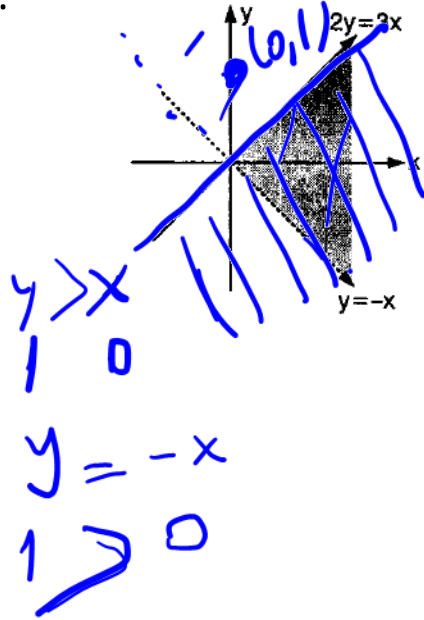
$$x - 2y \geq 4$$

$$3x + y \leq 3$$

eşitsizlik sisteminin çözüm kümesini gösteren grafik aşağıdakilerden hangisidir?



3.



Yandaki grafikte gösterilen taralı bölgenin ifadesi aşağıdaki eşitsizlik sistemlerinden hangisidir?

$$\begin{cases} y = -x \\ y > -x \end{cases}$$

$$2y = 3x$$

$$2y \leq 3x$$

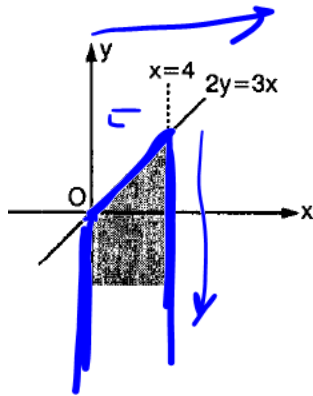
$$y > -x$$

$$2y \leq 3x$$

$$y + x > 0$$

$$3x - 2y \geq 0$$

4.



Şekildeki grafikte verilen taralı bölgeyi en iyi ifade eden eşitsizlik sistemi aşağıdakilerden hangisidir?

$$x = 0$$

$$x = 4$$

$$2y = 3x$$

$$2y \leq 3x$$

$$3x - 2y \geq 0$$

$$0 \leq x < 4$$

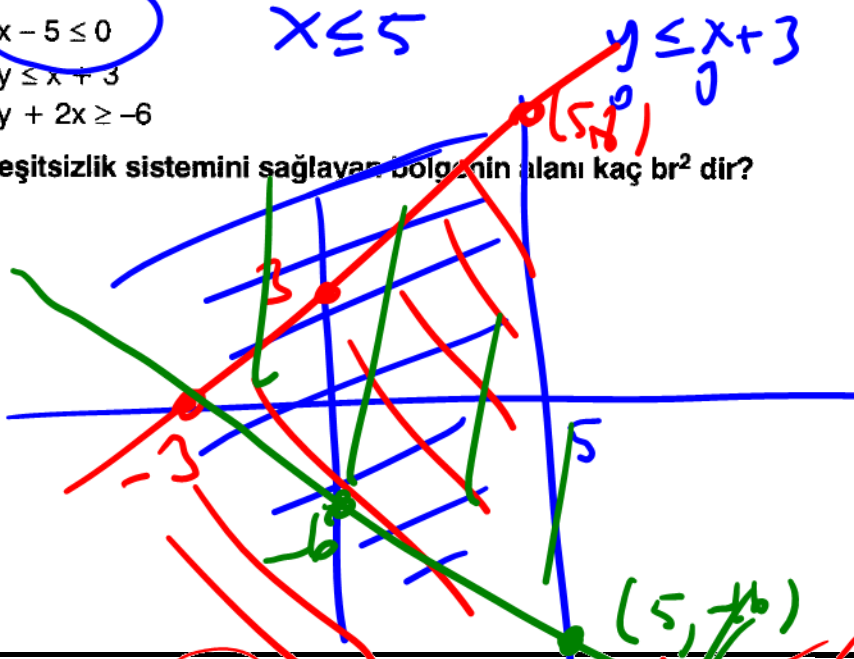
5.

$$x - 5 \leq 0$$

$$y \leq x + 3$$

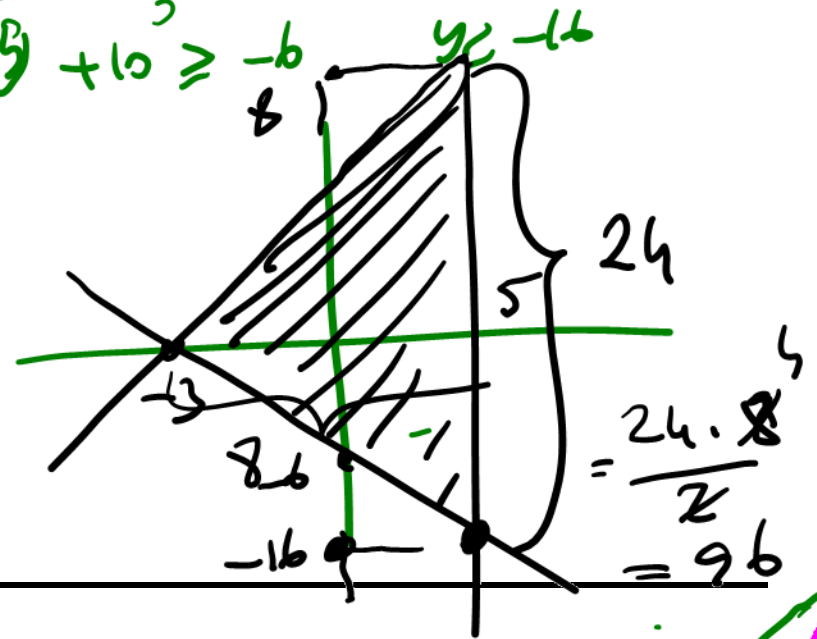
$$y + 2x \geq -6$$

eşitsizlik sistemini sağlayan bölgenin alanı kaç br² dir?



$$y + 2x \geq -6$$

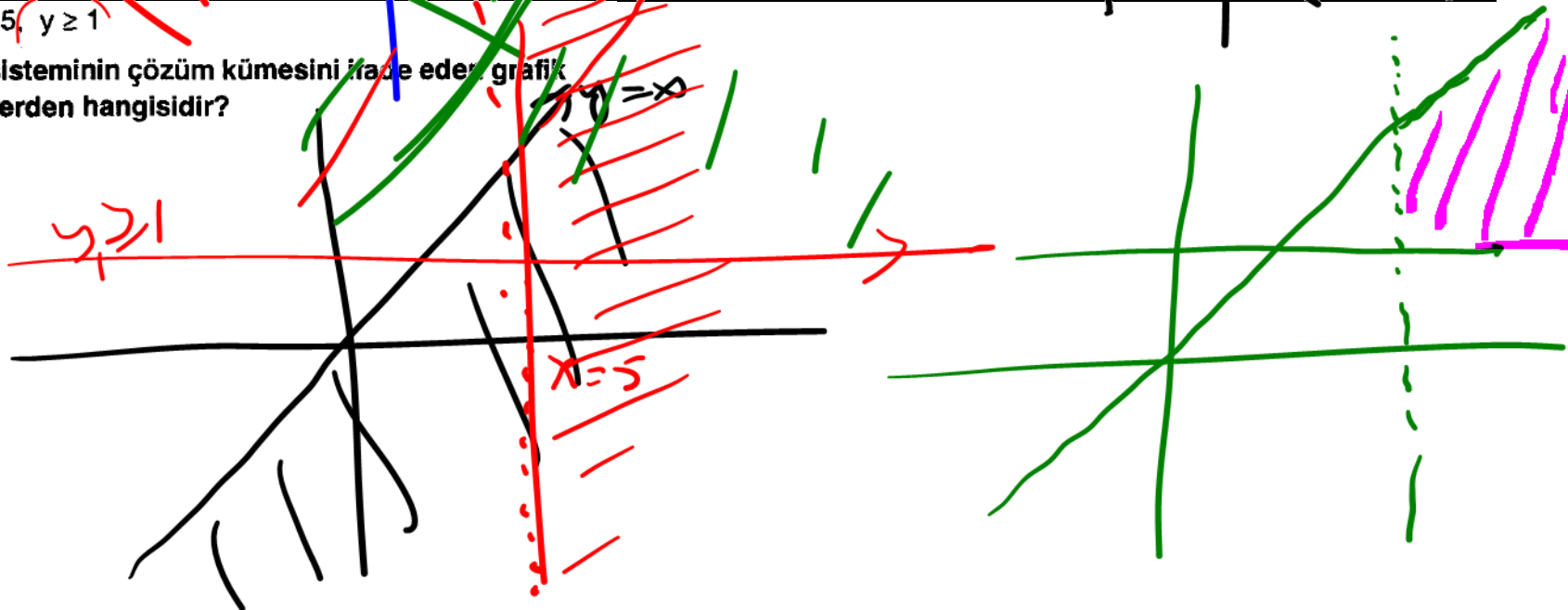
$$y + 10 \geq -6$$



6.

$$y \leq x, x > 5, y \geq 1$$

eşitsizlik sisteminin çözüm kümesini ifade eden grafik aşağıdakilerden hangisidir?



7.

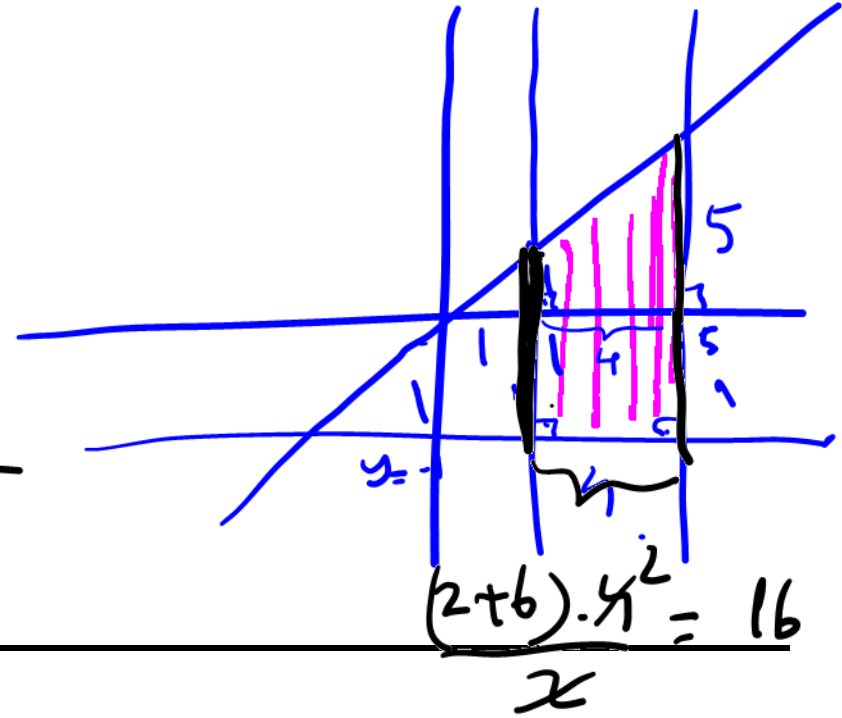
$$x \leq 5$$

$$y - x \leq 0$$

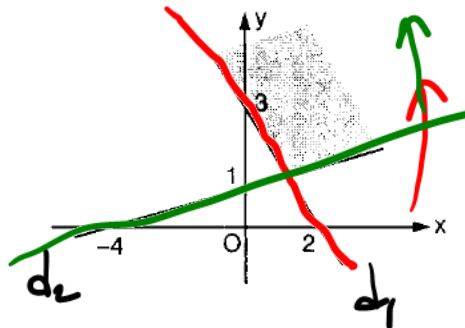
$$x \geq 1$$

$$y \geq -1$$

eşitsizliklerini sağlayan bölgenin alanı kaç br² dir?



8.



şekildeki taralı bölgeyi veren sistem aşağıdakilerden hangisidir?

$$d_1: \frac{x}{2} + \frac{y}{3} = 1$$

$$d_2: \frac{x}{-4} + \frac{y}{1} = 1$$

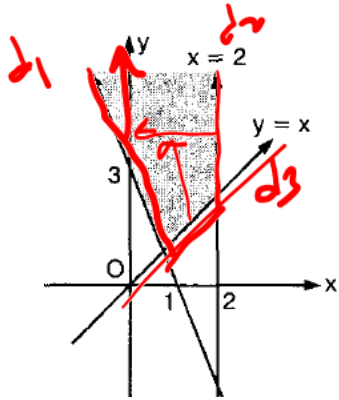
$$3x + 2y = 6$$

$$-x + 4y = 4$$

$$3x + 2y \geq 6$$

$$-x + 4y \geq 4$$

9.



Yandaki taralı bölgeyi ifade etmek için;

$$y \geq x \text{ ve}$$

$$x \leq 2$$

şartlarına aşağıdakilerden hangisi eklenmelidir?

$$\frac{x}{1} + \frac{y}{3} = 1$$

$$x = 2$$

$$y = x$$

$$3x + y = 3$$

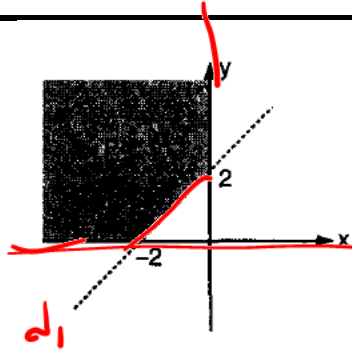
$$x \leq 2$$

$$y \geq x$$

$$3x + y \geq 3$$

$$\left. \begin{array}{l} 3x + y \geq 3 \\ x \leq 2 \\ y \geq x \end{array} \right\}$$

10.



Şekilde;

$(-2, 0)$, $(0, 2)$ noktalarından geçen bir doğru ve

$P(x, y)$ noktası veriliyor.

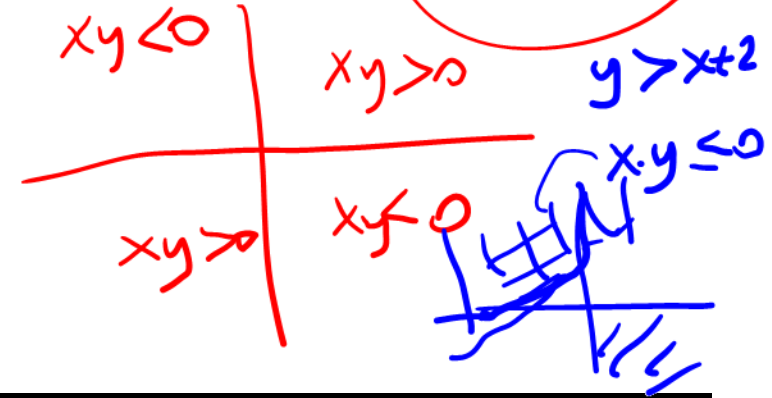
$P(x, y)$ noktaları için aşağıdakilerden hangisi doğrudur?

$$\frac{x}{-2} + \frac{y}{2} = 1$$

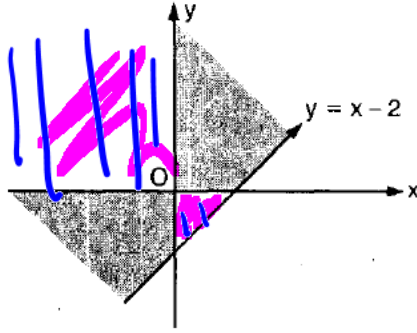
$$\begin{array}{l} -x + y = 2 \\ -x + y > 2 \\ \boxed{y > x + 2} \end{array}$$

$$\begin{array}{l} x \leq 0 \\ y \geq 0 \end{array}$$

$$\begin{array}{l} x \leq 0 \\ y \geq 0 \\ y > x + 2 \end{array}$$



11.



Şekilde verilen taralı alanı ifade eden eşitsizlik sisteminde,

$$y \geq x - 2$$

ifadesinin yanına aşağıdakilerden hangisi getirilmelidir?

$$y \geq x - 2$$

$$x \cdot y \geq 0$$

12.

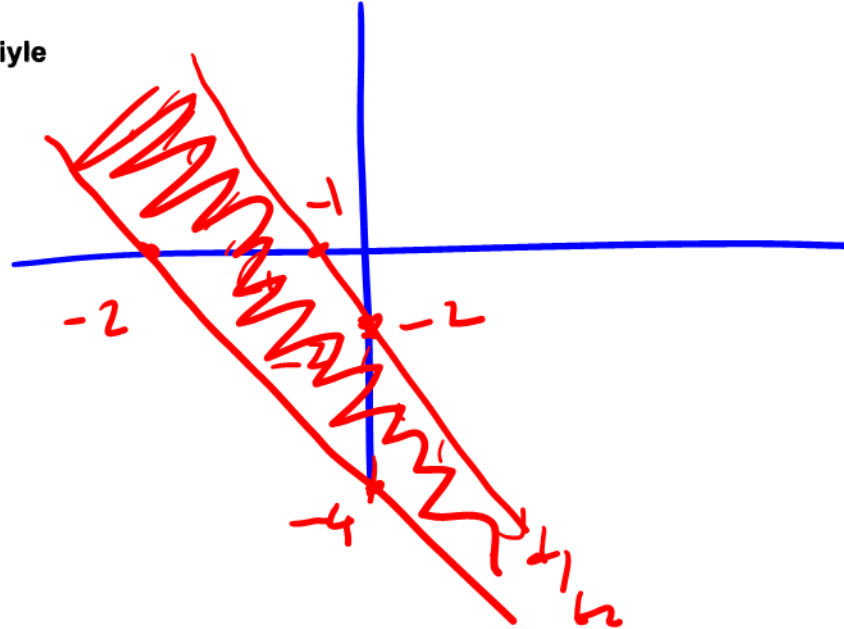
$$|y + 2x + 3| \leq 1$$

eşitsizliği aşağıdaki taralı bölgelerden hangisiyle gösterilir?

$$-1 \leq 2x + y + 3 \leq 1$$

$$d.: 2x + y + 2 \leq 0$$

$$0 \leq 2x + y + 4$$



13.

$$|x - 1| \leq 3$$

$$|y + 2| \leq 5$$

$$x, y \geq 0$$

analitik düzlemde eşitsizlik sistemini sağlayan bölgenin alanı kaç birimkaredir?

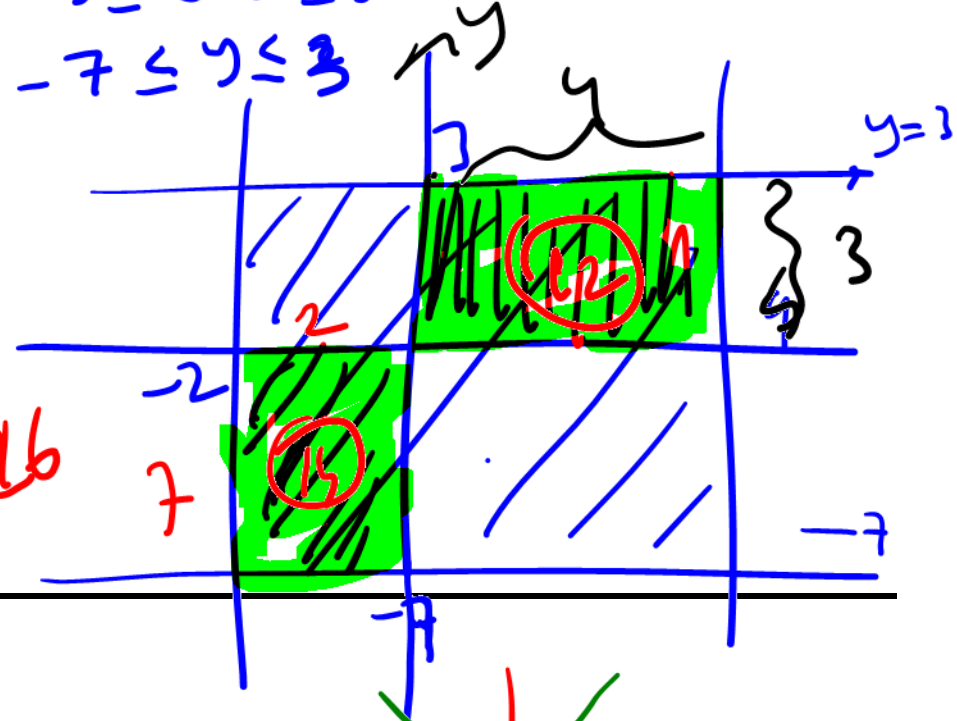


$$-3 \leq x-1 \leq 3$$

$$-2 \leq x \leq 4$$

$$-5 \leq y+2 \leq 5$$

$$-7 \leq y \leq 3$$



$$12 + 14 = 26$$

14.

$$|x| + |y| \leq 2$$

eşitsizliğini sağlayan noktalar kümesi aşağıdaki grafiklerden hangisi ile gösterilmiştir?

$$x < 0, y > 0$$

$$-x + y \leq 2$$

$$x < 0, y < 0$$

$$-x - y \leq 2$$

$$-x \leq y + 2$$

$$x > 0, y > 0$$

$$x + y \leq 2$$

$$x < 0, y < 0$$

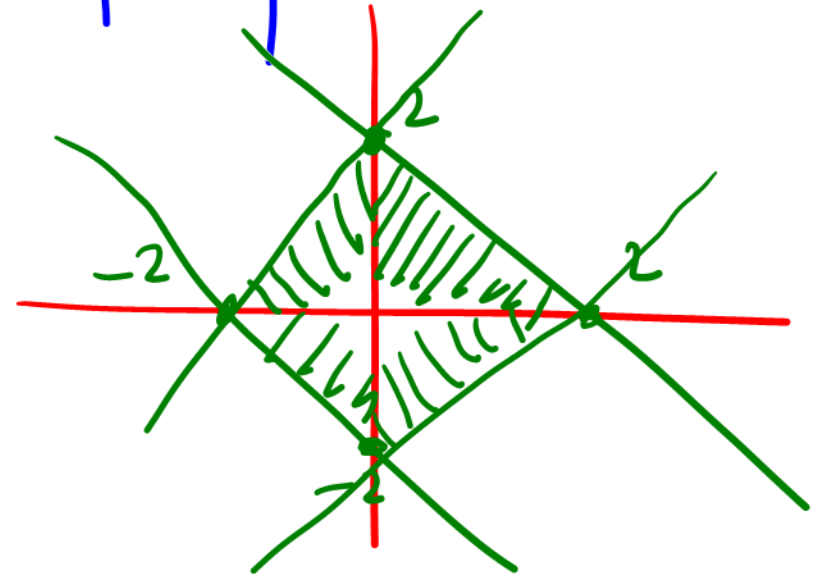
$$x - y \leq 2$$

$$x - y \leq 2$$

$$x - y \leq 2$$

$$x - y \leq 2$$

$$x - y \leq 2$$



15.

$$x^2 + 3xy + 2y^2 \geq 0$$

eşitsizliği aşağıdaki taralı bölgelerden hangisi ile gösterilir?



(I)

(II)

$$(x+2y) \cdot (x+y) \geq 0$$

$$y = -\frac{x}{2}$$

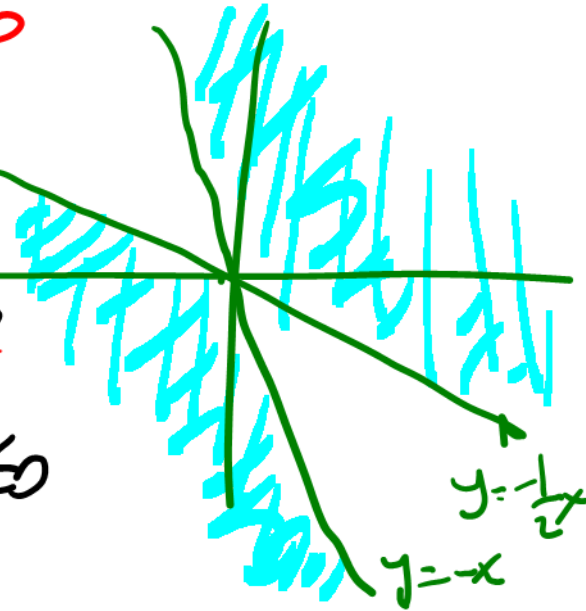
$$x+2y \geq 0$$

$$x+2y \leq 0$$

$$y = -x$$

$$x+y \geq 0$$

$$x+y \leq 0$$

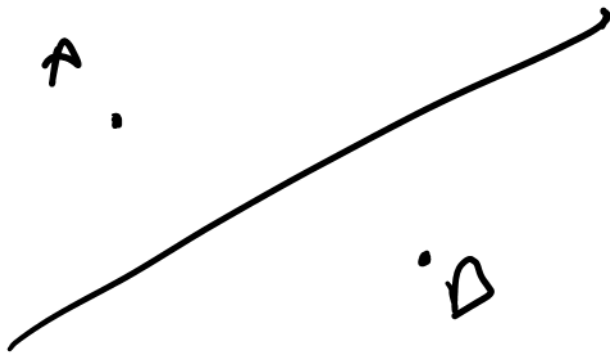


16.

$A(m, -5)$, $B(1, m-7)$ noktaları

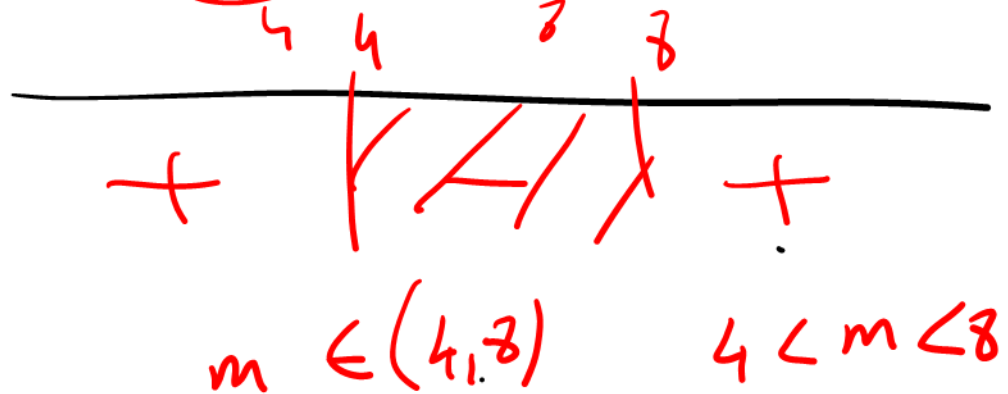
$$2x + y - 3 = 0$$

doğrusuna göre, farklı yarı düzlemde olduklarına göre, m nin en geniş tanım aralığı aşağıdakilerden hangisidir?



$$(2m-5-3) \cdot (2+m-7-3) < 0$$

$$(2m-8) \cdot (m-8) < 0$$



17. A(-4, 5) ve B(2, -1) noktaları $x - 2y + 2a = 0$ doğrusuna göre farklı yarı düzlemlerdedir.

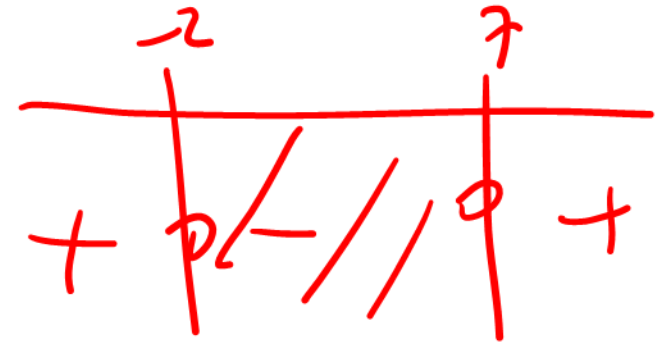
Buna göre, a nın alabileceği tamsayı değerleri toplamı kaçtır?

$$(-4 - 10 + 2a)(2 + 2 + 2a) < 0$$

$$(2a - 14)(2a + 4) < 0$$

$$a = 7$$

$$a = -2$$

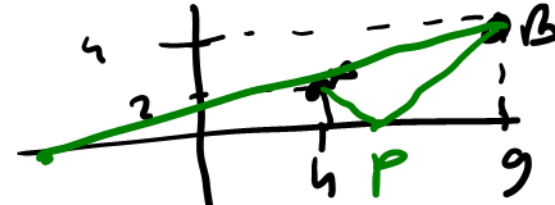
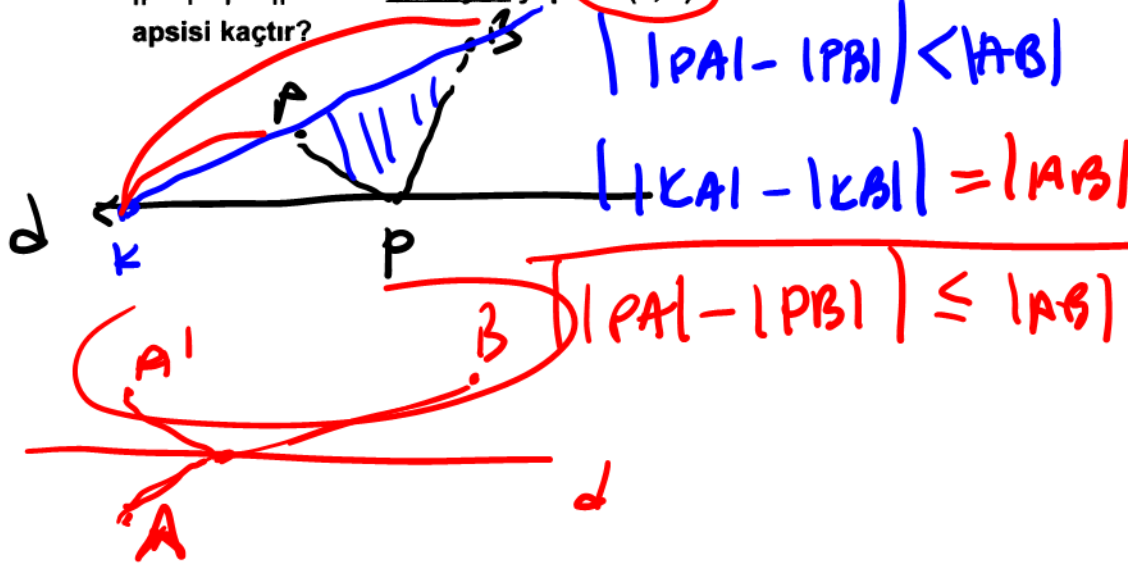


$$-2 < a < 7$$

~~1~~ ~~0~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~ ~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~ ~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~ ~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~ ~~26~~ ~~27~~ ~~28~~ ~~29~~ ~~30~~ ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ ~~36~~ ~~37~~ ~~38~~ ~~39~~ ~~40~~ ~~41~~ ~~42~~ ~~43~~ ~~44~~ ~~45~~ ~~46~~ ~~47~~ ~~48~~ ~~49~~ ~~50~~ ~~51~~ ~~52~~ ~~53~~ ~~54~~ ~~55~~ ~~56~~ ~~57~~ ~~58~~ ~~59~~ ~~60~~ ~~61~~ ~~62~~ ~~63~~ ~~64~~ ~~65~~ ~~66~~ ~~67~~ ~~68~~ ~~69~~ ~~70~~ ~~71~~ ~~72~~ ~~73~~ ~~74~~ ~~75~~ ~~76~~ ~~77~~ ~~78~~ ~~79~~ ~~80~~ ~~81~~ ~~82~~ ~~83~~ ~~84~~ ~~85~~ ~~86~~ ~~87~~ ~~88~~ ~~89~~ ~~90~~ ~~91~~ ~~92~~ ~~93~~ ~~94~~ ~~95~~ ~~96~~ ~~97~~ ~~98~~ ~~99~~ ~~100~~ ~~101~~ ~~102~~ ~~103~~ ~~104~~ ~~105~~ ~~106~~ ~~107~~ ~~108~~ ~~109~~ ~~110~~ ~~111~~ ~~112~~ ~~113~~ ~~114~~ ~~115~~ ~~116~~ ~~117~~ ~~118~~ ~~119~~ ~~120~~ ~~121~~ ~~122~~ ~~123~~ ~~124~~ ~~125~~ ~~126~~ ~~127~~ ~~128~~ ~~129~~ ~~130~~ ~~131~~ ~~132~~ ~~133~~ ~~134~~ ~~135~~ ~~136~~ ~~137~~ 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19.

Analitik düzlemde A(4, 2) ve B(9, 4) noktaları veriliyor.

 $||PA| - |PB||$ farkını en büyük yapan P(x, 0) noktasının apsisi kaçtır?

AB doğ. x eksenini keştiği

$$\frac{x-4}{9-4} = \frac{0-2}{4-2}$$

$$\frac{x-4}{5} = \frac{-2}{2} = -1$$

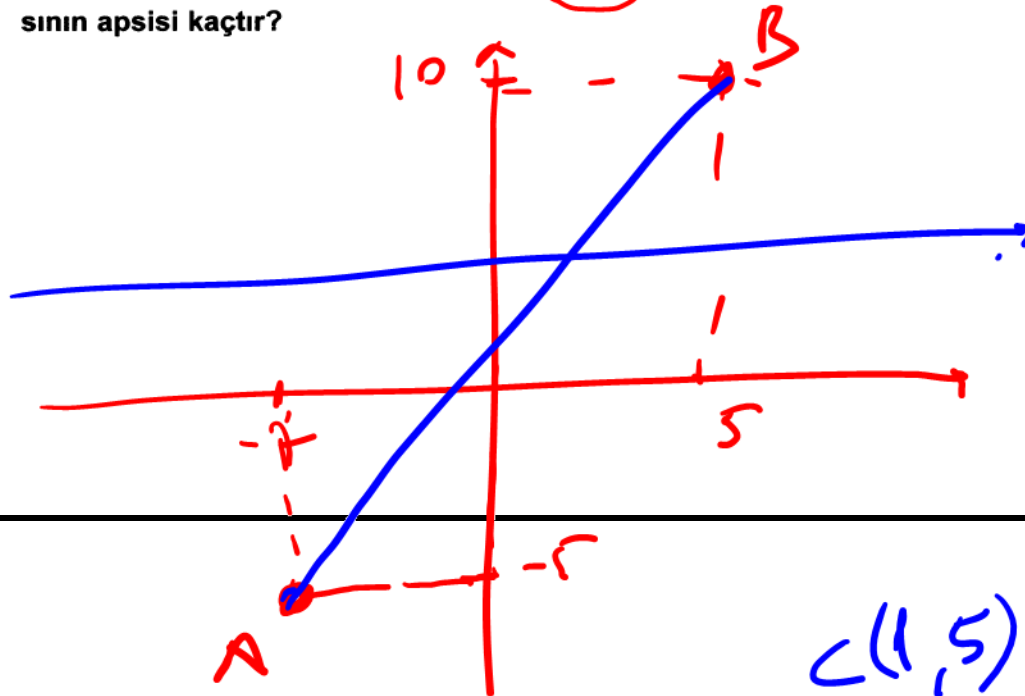
$$x-4 = -5$$

$$x = -1$$

$$x = -1$$

20.

Analitik düzlemde A(-7, -5), B(5, 10) noktaları veriliyor.

 $|CA| + |CB|$ toplamını en küçük yapan C(x, 5) noktasının apsisi kaçtır?

$$\frac{x+7}{5+7} = \frac{y+5}{10+5} \Rightarrow \frac{x+7}{12} = \frac{y+5}{15}$$

$$\frac{x+7}{12} = \frac{2}{5}$$

$$x+7 = \frac{24}{5}$$

$$x = \frac{24}{5} - 7 = -\frac{11}{5}$$

$$x+7 = \frac{24}{5}$$

$$x = \frac{24}{5} - 7 = -\frac{11}{5}$$