

Sistem Pertidaksamaan linear Dua Variabel

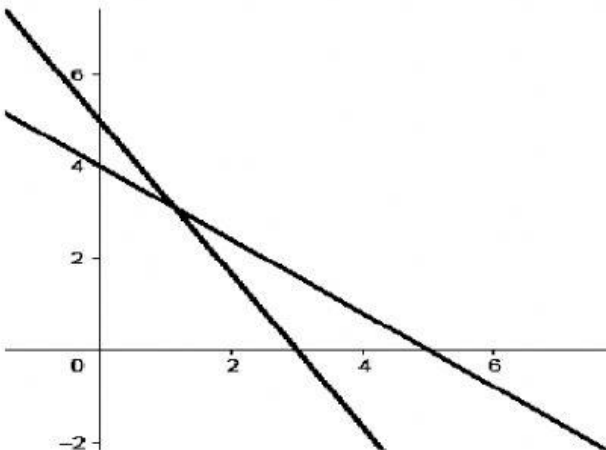
Nama :

Kelas :

LKPD

Tentukan himpunan penyelesaian dari sistem pertidaksamaan linear berikut ini:

$$\begin{cases} 4x + 5y \leq 20 \\ 5x + 3y \geq 15 \\ x \geq 0 \\ y \geq 0 \end{cases}$$

No.	Langkah	Action																
1.	Ubah tanda pertidaksamaan menjadi persamaan	$4x + 5y \dots 20$ $5x + 3y \dots 15$ $x \dots 0$ $y \dots 0$																
2.	Buat titik potong	- Untuk $4x + 5y = 20$<table><tr><td>$x = 0$</td><td>$4x + 5y = 20$</td><td>$y = \dots$</td><td>$(x,y)=(\dots, \dots)$</td></tr><tr><td>$y = 0$</td><td>$4x + 5y = 20$</td><td>$x = \dots$</td><td>$(x,y) = (\dots,\dots)$</td></tr></table> - Untuk $5x + 3y = 15$<table><tr><td>$x = 0$</td><td>$5x + 3y = 15$</td><td>$y = \dots$</td><td>$(x,y)=(\dots, \dots)$</td></tr><tr><td>$y = 0$</td><td>$5x + 3y = 15$</td><td>$x = \dots$</td><td>$(x,y) = (\dots,\dots)$</td></tr></table>	$x = 0$	$4x + 5y = 20$	$y = \dots$	$(x,y)=(\dots, \dots)$	$y = 0$	$4x + 5y = 20$	$x = \dots$	$(x,y) = (\dots,\dots)$	$x = 0$	$5x + 3y = 15$	$y = \dots$	$(x,y)=(\dots, \dots)$	$y = 0$	$5x + 3y = 15$	$x = \dots$	$(x,y) = (\dots,\dots)$
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3.	Gambar grafiknya																	

4. Buat Titik Uji

- Selalu uji titik (0,0) artinya $x = 0$ dan $y = 0$

$X = 0$	$4x + 5y \leq 20$	 $\leq$		
$Y = 0$	$5x + 3y \geq 15$	 $\geq$		

5. Tentukan Himpunan Penyelesaiannya

