

Soal 5

SPLDV

Ballia birul waliday



5

Sebuah toko online menjual smartwatch dan earphone wireless. Harga beli satu smartwatch dari supplier Rp350.000,00 dan earphone Rp200.000,00. Modal yang dimiliki toko Rp4.000.000,00, dan kapasitas gudang hanya dapat menampung maksimal 20 unit produk.

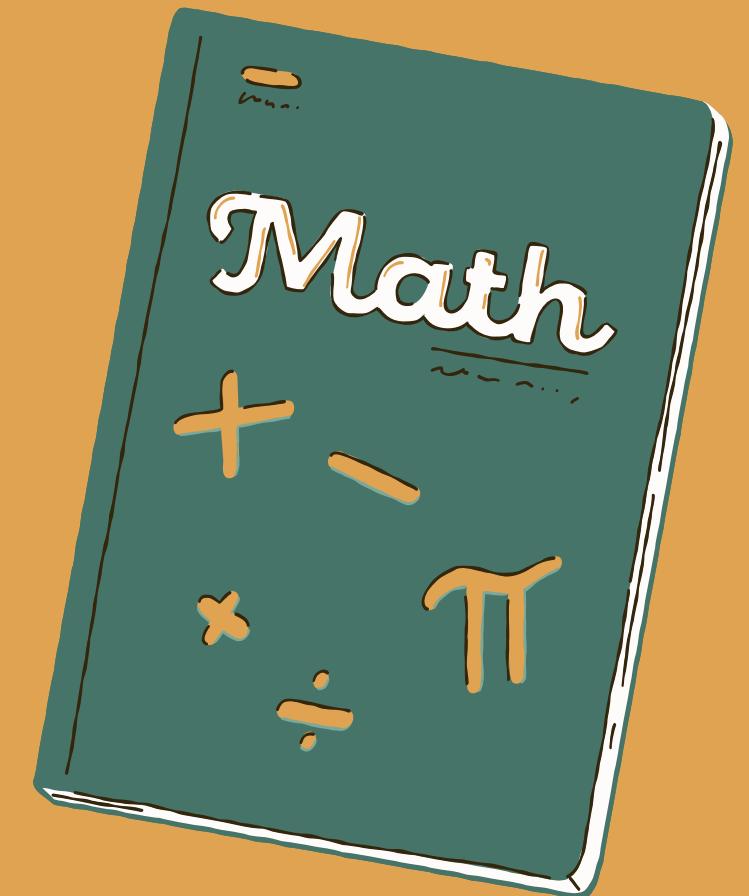
9

5

1

6

2



diketahui

Harga beli 1 smartwatch = Rp350.000

Harga beli 1 earphone wireless =
Rp200.000

Modal toko = Rp4.000.000

Kapasitas gudang = 20 unit total
(gabungan smartwatch + earphone)

model mtk

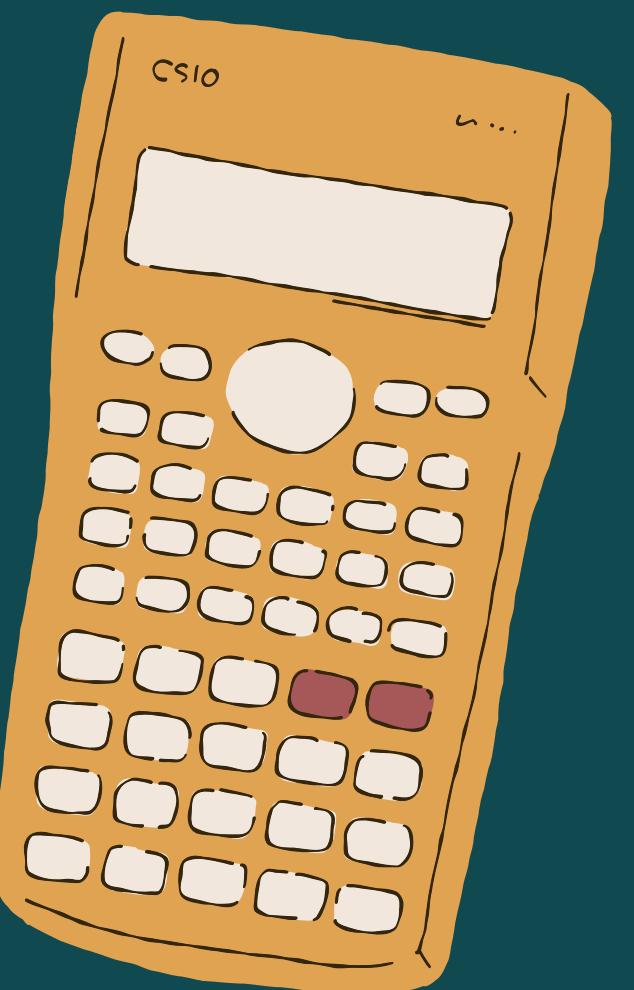
smartwatch=x
earphone=y

Pertidaksamaan

$$\begin{aligned}350.500x + \\200.000y &\leqslant \\4.000.000 \\x + y &= 20\end{aligned}$$

Eliminasi

$$\begin{array}{l} 35x + 20y = 400 \\ x + y = 20 \end{array} \quad \left| \begin{array}{l} \times 1 \\ \times 20 \end{array} \right| \quad \begin{array}{l} 35x + 20y = 400 \\ 20x + 20y = 400 \end{array}$$



Titik potong

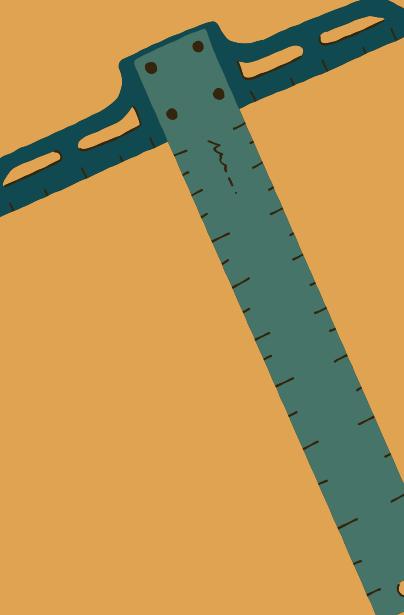
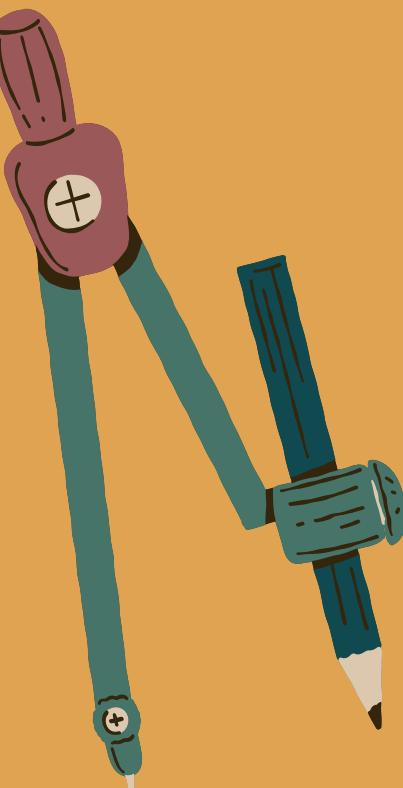
$$35x + 20y = 400 \quad x + y = 20$$

x	0	11,4
y	20	0

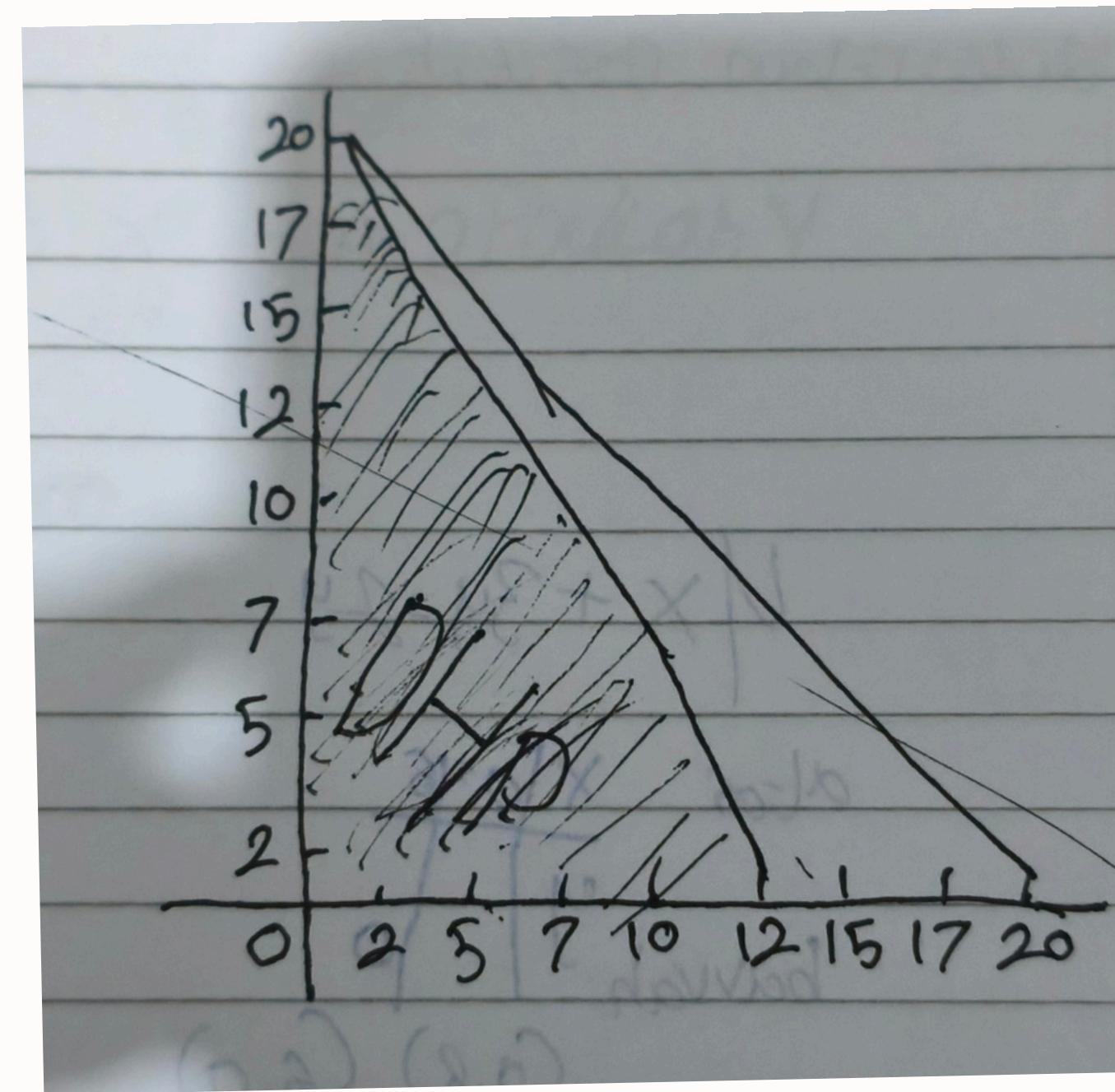
x	0	20
y	20	0

Substitusi

$$\begin{aligned}x + y &= 20 \\0 + y &= 20 \\y &= 20\end{aligned}$$



Gravik



Thank you ya

