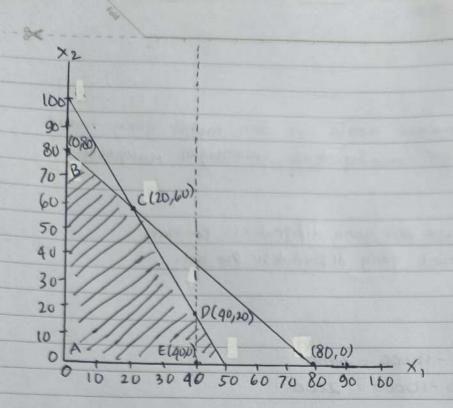
Daning	
Daffa Danondra Fairuzz 09020624026	a />6-
* Dec	
* Definisi Masalah	
Burge	inan kereta api dan mobil yang harus
diprolition mai	Inan kereta api dan mobil gamal
Joko agar	mendapatkan keuntungan maksimal
* Variabel	
X1 = Sumlah lung kerta	api yang diproduksi per haci
X2 = Jumlah lusin mobi	yang diproduksi per hari
+ Fungsi Tujuan	
X1 = 27000 - 10000 - 1	14000 = 3000
12: 21000 - 9000 -	10000 = 2000
max = 3000x1	+ 2000X2
2 5000X1	
* Konstrain	COL STATE SEE TO
	Potony
	Potony Poles produksi kareta api
$2X_1 + X_2 \leq 100 \Rightarrow 1$ $X_1 \leq 40 \Rightarrow \text{batas}$	
$2x_1 + x_2 \leq 100 \Rightarrow 1$ $x_1 \leq 40 \Rightarrow batas$ * Membuat Grafik Potong	Poles produksi kareta api
$2x_1 + x_2 \leq 100 \Rightarrow 1$ $x_1 \leq 40 \Rightarrow batas$ * Membuat Grafik Potong (5aat $x_2=0$)	Poles produksi kareta api (saat X1 = 0)
$2X_1 + X_2 \leq 100 \Rightarrow 1$ $X_1 \leq 40 \Rightarrow \text{ batas}$ $4 \text{ idembuat Grafik}$ $\frac{\text{Potong}}{(5\text{ aat } X_2 = 0)}$ $X_1 + X_2 \leq 80$	Poles produksi kareta api $(sant \times_1 = 0)$ $(x + x) + x + x + y + y + y + y + y + y + y + y$
$2x_1 + x_2 \leq 100 \Rightarrow 1$ $x_1 \leq 40 \Rightarrow \text{ batas}$ $x_1 + x_2 \leq 80$ $x_1 + x_2 \leq 80$ $x_1 + x_2 \leq 80$	Poles produksi kareta api $(saat \times_1 = 0)$ $(x + x) + x = 80$ $0 + x = 80$
$2X_1 + X_2 \leq 100 \Rightarrow 1$ $X_1 \leq 40 \Rightarrow \text{ batas}$ $4 \text{ idembuat Grafik}$ $\frac{\text{Potong}}{(5\text{ aat } X_2 = 0)}$ $X_1 + X_2 \leq 80$	Poles Produksi kareta api $(saat \times_1 = 0)$ $(\times_1 + \times_2 = 80$ $0 + \times_2 = 80$ $\times_2 = 80 \rightarrow (0.80)$
$2X_1 + X_2 \leq 100 \Rightarrow 1$ $X_1 \leq 40 \Rightarrow \text{ batas}$ $4 \text{ idembuat 6 rafik}$ $\frac{\text{Potong}}{(5004 \times 2=0)}$ $X_1 + X_2 = 80$ $X_1 + 0 = 80$ $X_1 = 80 \Rightarrow (80,0)$	Poles Produksi kareta api $(sant \times_1 = 0)$ $(\times_1 + \times_2 = 80$ $0 + \times_2 = 80$ $\times_2 = 80 \rightarrow (0.80)$
$2x_1 + x_2 \leq 100 \Rightarrow$ $x_1 \leq 40 \Rightarrow batas$ * Membuat Grafik Potong (5aat $x_2=0$) $x_1 + x_2 = 80$ $x_1 + 0 = 80$ $x_1 = 80 \Rightarrow (80,0)$ Poles	Poles Produnsi kareta api $(sant \times_1 = 0)$ $(\times_1 + \times_2 = 80$ $0 + \times_2 = 80$ $\times_2 = 80 \rightarrow (0.80)$
$2x_1 + x_2 \leq 100 \Rightarrow 1$ $x_1 \leq 40 \Rightarrow \text{ batas}$ $x_1 + x_2 \leq 80$	Poles Produksi kareta api $(saat \times_1 = 0)$ $(x_1 + x_2 = 80)$ $0 + x_2 = 80$ $x_2 = 80 \Rightarrow (0.80)$ $(saat \times_1 = 0)$
$2x_1 + x_2 \le 100 \Rightarrow 100$ $x_1 \ge 40 \Rightarrow batas$ * Membuat Grafik Potong (5aat $x_2 = 0$) $x_1 + x_2 = 80$ $x_1 + 0 = 80$ $x_1 = 80 \Rightarrow (80,0)$ Poles (5aat $x_2 = 0$) $x_1 + x_2 = 100$	Poles produksi kareta api $(saat \times_1 = 0)$ $(\times_1 + \times_2 = 80$ $0 + \times_2 = 80$ $\times_2 = 80 \Rightarrow (0.80)$ $(saat \times_1 = 0)$ $2\times_1 + \times_2 = (00)$
$2x_1 + x_2 \le 100 \Rightarrow 100$ $x_1 \ge 40 \Rightarrow batas$ * Membuat Grafik Potong (5aat $x_2 = 0$) $x_1 + x_2 = 80$ $x_1 + 0 = 80$ $x_1 = 80 \Rightarrow (80,0)$ Poles (5aat $x_2 = 0$) $x_1 + x_2 = 100$ $x_1 + x_2 = 100$	Poles Produksi kareta api $(saat \times_1 = 0)$ $(x_1 + x_2 = 80)$ $0 + x_2 = 80$ $x_2 = 80 \Rightarrow (0.80)$ $(saat \times_1 = 0)$ $2x_1 + x_2 = 100$ $2(0) + x_1 + x_2 = 100$
$2x_1 + x_2 \le 100 \Rightarrow 100$ $x_1 \ge 40 \Rightarrow batas$ * Membuat Grafik Potong (5aat $x_2 = 0$) $x_1 + x_2 = 80$ $x_1 + 0 = 80$ $x_1 = 80 \Rightarrow (80,0)$ Poles (5aat $x_2 = 0$) $x_1 + x_2 = 100$ $x_1 + x_2 = 100$	Poles Produksi kareta api $(saat \times_1 = 0)$ $(x_1 + x_2 = 80$ $0 + x_2 = 80$ $x_2 = 80 \Rightarrow (0.80)$ $(saat \times_1 = 0)$ $2x_1 + x_2 = 100$ $2(0) + x_2 = 100$



menentukan titik potong

kurangi Persamaan 2 dengan $(2x_1 + x_2) - (x_1 + x_2) = 100 - 80$ $2 \times 1 + \times_2 - \times_1 - \times_2 = 20$

$$X_1 = 20$$

Subtitus i nilai X, ke persamaan 1

$$x_2 = 80 - 20$$

Batas kereta api

$$2x_1 + x_2 = 100$$

$$x_2 = 100 - 60$$

 $x_2 = 20 \Rightarrow \text{ tilik potong } 0 (40,20)$

titik A (0,0) Z = 3000(0) + 2000(0) = 6 titik B (0,80) 2 = 3000(0) +2000 (80) = 160.006 titik ((20,60) Z = 3000 (20) + 2000 (60) = (80006 > Paling untung title D (40,20) 7 = 3000 (40) + 2000(20) = 160.000 fitik E (90,0) z = 3000 (46) + 2000 (0) = 120.000 Verifikasi tilik untung (20,66) Potong = 20+60 = 80 \(\text{80} \) (tcpat) Poles = 2 (20) + 60 = 40 + 60 = 100 (tepat) Batas kerita api: 20 < 40 (memonuhi) jadi keuntungan maksimum terjadi pada titik C (20,60) dengan produksi kereta api 20 dan mobil 60