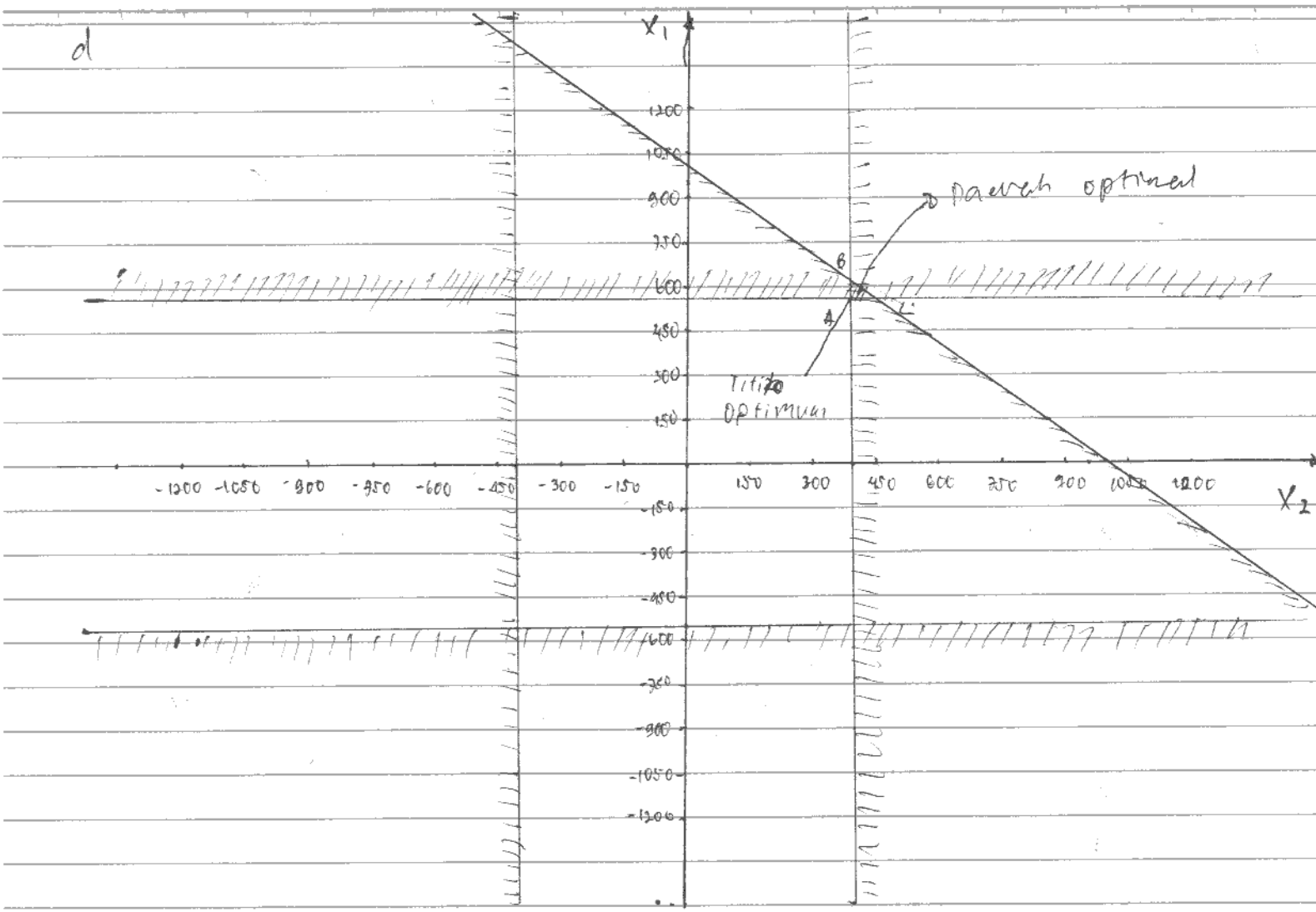
d



$f(x) = -200x_1 - 200x_2 + 2450000$

$= -200(550) - 200(400) + 2450000$

$= -110000 - 80000 + 2450000$

$= 2260000$

$f(x) = -200(600) - 200(400) + 2450000$

$= 2250000$

$f(x) = -200(550) - 200(450) + 2450000$

$= 2250000$

$1750 - x_1 = 1000 \Rightarrow x_1 = 550$

$1500 - x_2 = 1100 \Rightarrow x_2 = 400$

$(550, 400)$

$x_1 + x_2 = 1000$

$x_2 = 400$

$x_1 = 600$ $(600, 400)$

$x_1 + x_2 = 1000$

$x_1 = 550$

$x_2 = 450$ $(550, 450)$

Jadi terbukti titik optimumnya $x_1 = 550$; $x_2 = 450$ atau $x_1 = 600$ dan $x_2 = 400$ dan, garis BC sepanjang

12