Surname 1

Student's Name

Instructor's Name

Course Title

Date

Math Question

All of the activities below refer to the following linear program

Equation	X coeff	Y coeff	Constraint	Gradient
Profit	140	100		
Constraint 1	9	12	7160	
Constraint 2	10	10	6540	
Constraint 3	12	6	6035	

Calculate the gradient of the profit and constraint lines of the linear program to determine which two lines meet at the optimal point

Solutions:



 $\theta = 215.53767779197^{\circ}$



 $\Delta X = 0 - 140 = -140$

 $\Delta Y = 0 - 100 = -100$

Distance (d) = $\sqrt{\Delta X^2} + \Delta Y^2 = \sqrt{29600} = 172.04650534085$

Linear equation:

y = 0.71428571428571x

When x=0, y=0

When y=0, x = -0





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