

Maximum Value

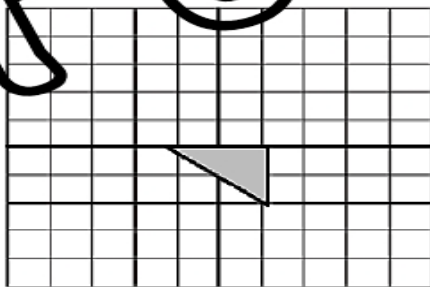
Minimum Value

Maximize $C = -2x - 10y$
 subject to the constraints
 $y \geq -x - 1$ $x \leq 1$ $y \leq 0$

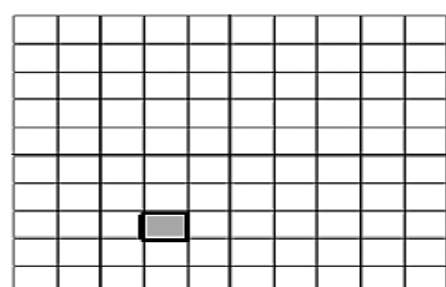
Minimize $C = 2x - 8y$
 subject to the constraints
 $-2 \leq x \leq -1$ $-3 \leq y \leq -2$

Vertices	$C = -2x - 10y$	Min/Max
1 0	$C = -2(1) - 10(0)$	-2
1 -2	$C = -2(1) - 10(-2)$	18
-1 0	$C = -2(-1) - 10(0)$	2

Vertices	$C = 2x - 8y$	Min/Max
-2 -3	$C = 2(-2) - 8(-3)$	20
-2 -2	$C = 2(-2) - 8(-2)$	12
-1 -3	$C = 2(-1) - 8(-3)$	22
-1 -2	$C = 2(-1) - 8(-2)$	14



Maximum Value = 18



Minimum Value = 12

LINEAR PROGRAMMING