

# Maximum Value

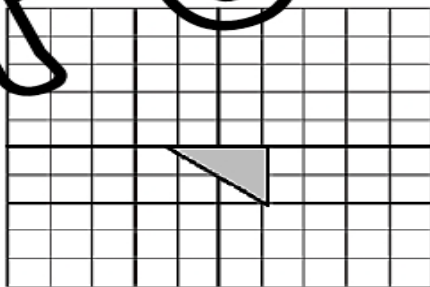
# Minimum Value

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

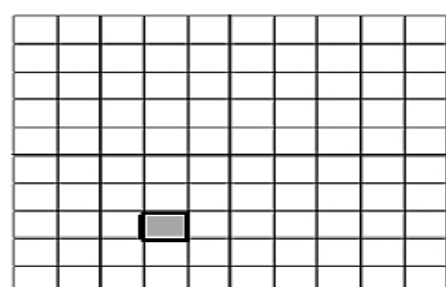
Minimize  $C = 2x - 8y$   
 subject to the constraints  
 $-2 \leq x \leq 1$        $-3 \leq y \leq -2$

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
1    -2	$C = 2(1) - 8(-2)$	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