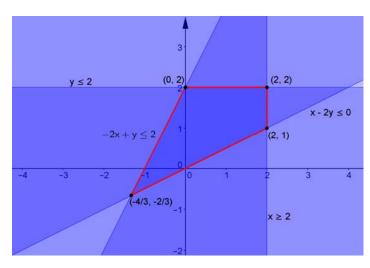
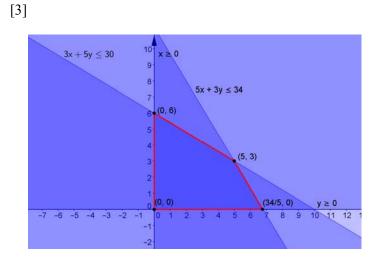
[1]



Corner Points	Function Values: $F(x, y) = 2x + 3y$
(0, 2)	F(0, 2) = 2(0) + 3(2) = 6
(2, 2)	F(2, 2) = 2(2) + 3(2) = 10
(-4/3, -2/3)	F(-4/3 - 2/3) = 2(-4/3) + 3(-2/3) = -14/3
(2, 1)	F(2, 1) = 2(2) + 3(1) = 7

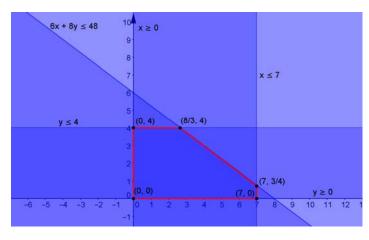
Therefore, the maximum value of F is 10 when x = 2and y = 2, and the minimum value of F is -14/3when x = -4/3 and y = -2/3.



Corner Points	Function Values: $F(x, y) = 4x + 28y$
(0, 0)	F(0, 0) = 4(0) + 28(0) = 0
(0, 6)	F(0, 6) = 4(0) + 28(6) = 168
(5, 3)	F(5, 3) = 4(5) + 28(3) = 104
(34/5, 0)	F(34/5, 0) = 4(34/5) + 28(0) = 136/5 = 27.2

Therefore, the maximum value of F is 168 when x = 0 and y = 6, and the minimum value of F is 0 when x = 0 and y = 0.

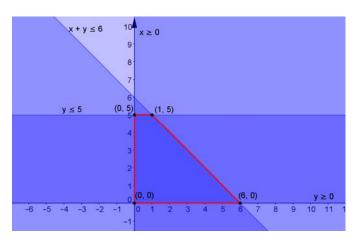
[5]



Corner Points	Function Values: $P(x, y) = 16x - 2y + 40$
(0, 0)	P(0, 0) = 16(0) - 2(0) + 40 = 40
(0, 4)	P(0, 4) = 16(0) - 2(4) + 40 = 32
(8/3, 4)	$P(8/3, 4) = 16(8/3) - 2(4) + 40 = 224/3 \approx 74.67$
(7, 3/4)	P(7, 3/4) = 16(7) - 2(3/4) + 40 = 301/2 = 150.5
(7, 0)	P(7, 0) = 16(7) - 2(0) + 40 = 152

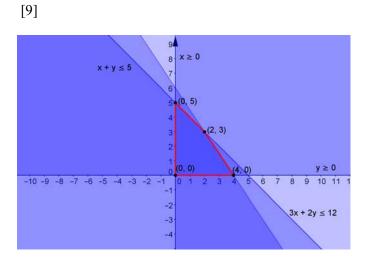
Therefore, the maximum value of P is 152 when x = 7 and y = 0, and the minimum value of P is 32 when x = 0 and y = 4.

[7]



Corner Points	Function Values: $F(x, y) = x + 2y$
(0, 0)	F(0, 0) = (0) + 2(0) = 0
(0, 5)	F(0, 5) = (0) + 2(5) = 10
(1, 5)	F(1, 5) = (1) + 2(5) = 11
(6, 0)	F(6, 0) = (6) + 2(0) = 6

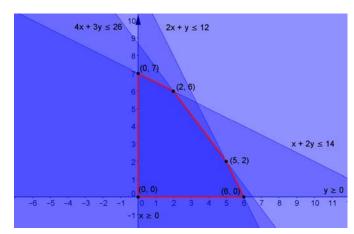
Therefore, the maximum value of F is 11 when x = 1 and y = 5.



Corner Points	Function Values: $f(x, y) = 5x + 4y$
(0, 0)	f(0, 0) = 5(0) + 4(0) = 0
(0, 5)	f(0,5) = 5(0) + 4(5) = 20
(2, 3)	f(2,3) = 5(2) + 4(3) = 22
(4, 0)	f(4, 0) = 5(4) + 4(0) = 20

Therefore, the maximum value of f is 22 when x = 2 and y = 3.

[11]

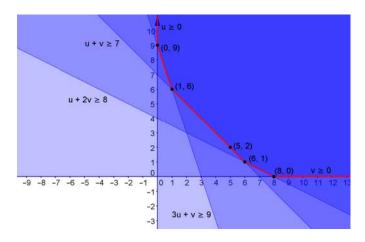


Corner Points	Function Values: $G(x, y) = 3x + 4y$
(0, 0)	G(0, 0) = 3(0) + 4(0) = 0
(0, 7)	G(0, 7) = 3(0) + 4(7) = 28
(2, 6)	G(2, 6) = 3(2) + 4(6) = 30
(5, 2)	G(5, 2) = 3(5) + 4(2) = 23
(6, 0)	G(6, 0) = 3(6) + 4(0) = 18

Therefore, the maximum value of G is 30 when x = 2 and y = 6.

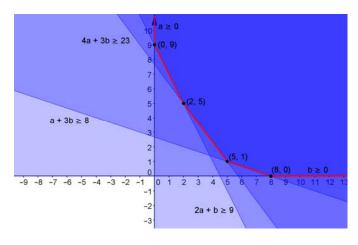
[13]

[15]



Function Values: $Z(u, v) = 3u + 4v$
Z(0, 9) = 3(0) + 4(9) = 36
Z(1, 6) = 3(1) + 4(6) = 27
Z(5, 2) = 3(5) + 4(2) = 23
Z(6, 1) = 3(6) + 4(1) = 22
Z(8, 0) = 3(8) + 4(0) = 24

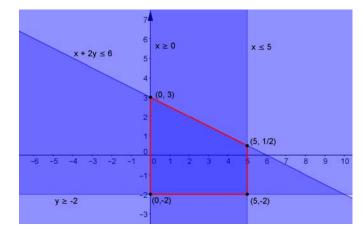
Therefore, the minimum value of Z is 22 when u = 6 and v = 1.



Corner Points	Function Values: $A(a, b) = 2a + 5b$
(0, 9)	A(0, 9) = 2(0) + 5(9) = 45
(2, 5)	A(2, 5) = 2(2) + 5(5) = 29
(5, 1)	A(5, 1) = 2(5) + 5(1) = 15
(8, 0)	A(8, 0) = 2(8) + 5(0) = 16

Therefore, the minimum value of A is 15 when a = 5 and b = 1.

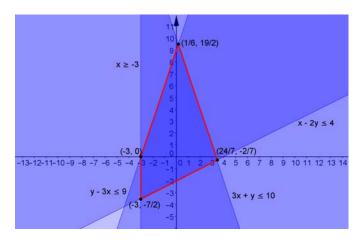
[17]



Corner Points	Function Values: $f(x, y) = x - y$
(0, -2)	f(0, -2) = (0) - (-2) = 2
(0, 3)	f(0,3) = (0) - (3) = -3
(5, 1/2)	f(5, 1/2) = (5) - (1/2) = 9/2 = 4.5
(5, -2)	f(5, -2) = (5) - (-2) = 7

Therefore, the maximum value of f is 7 when x = 5 and y = -2, and the minimum value of f is -3 when x = 0 and y = 3.

[19]



Corner Points	Function Values: $f(x, y) = x - y$
(-3, -7/2)	f(-3, -7/2) = (-3) - (-7/2) = 1/2 = 0.5
(-3, 0)	f(-3, 0) = (-3) - (0) = -3
(1/6, 19/2)	f(1/6, 19/2) = (1/6) - (19/2) = -28/3 ≈ -9.33
(24/7, -2/7)	f(24/7, -2/7) = (24/7) - (-2/7) = 26/7 \$\approx 3.71\$

Therefore, the maximum value of f is 26/7 (or 3.71) when x = 24/7 and y = -2/7, and the minimum value of f is -28/3 (or -9.33) when x = 1/6 and y = 19/2.