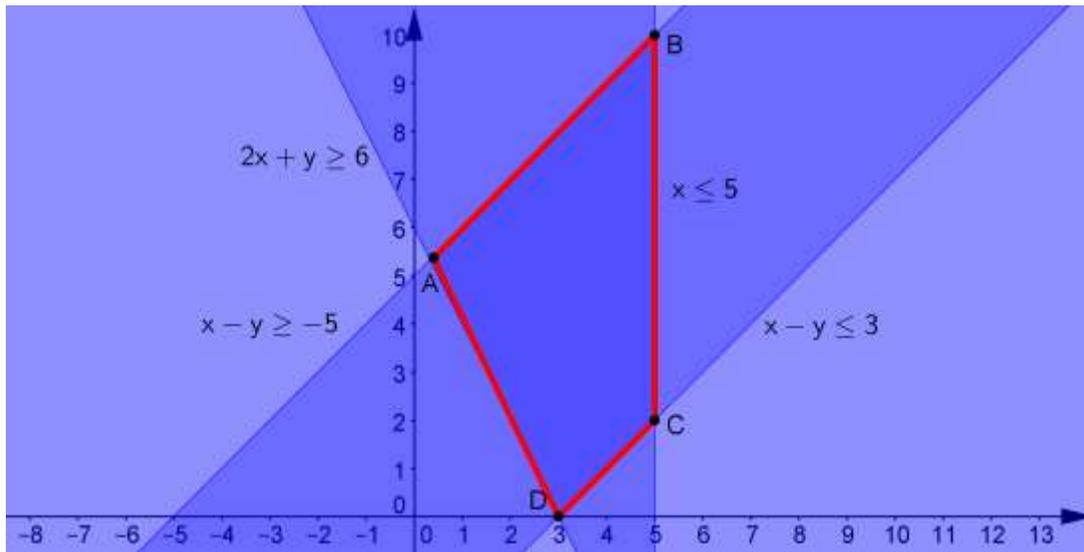
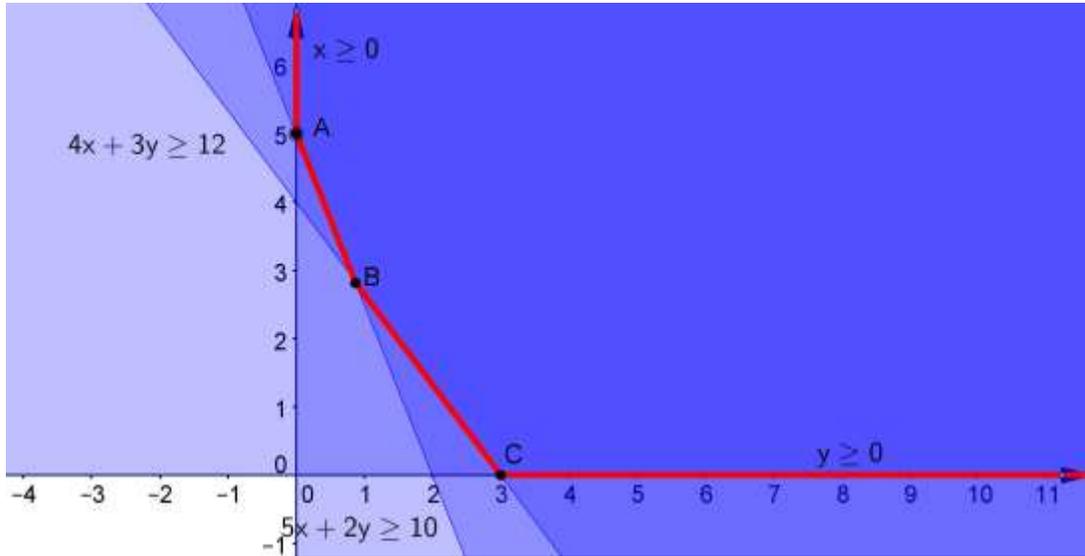


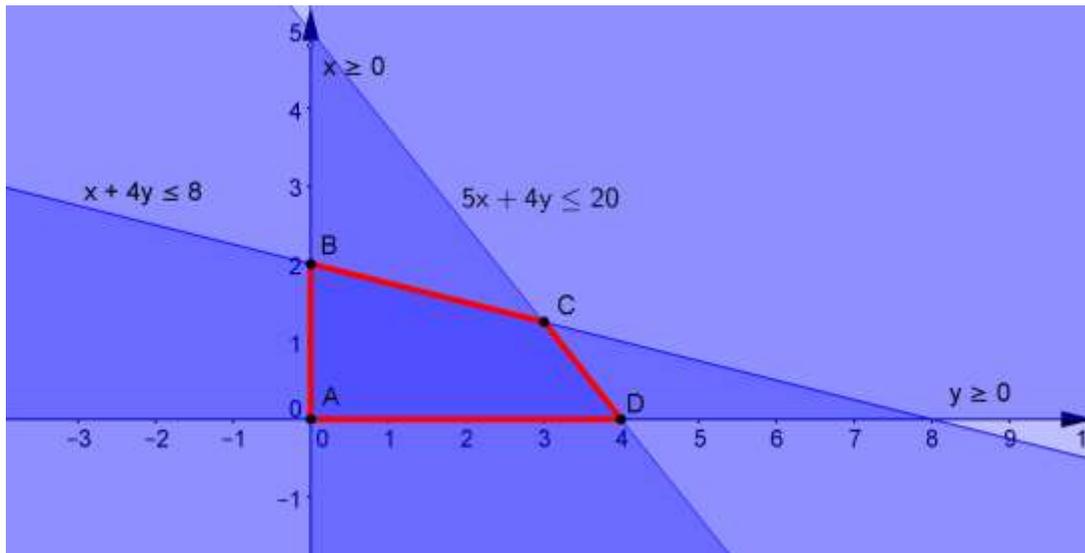
1. C
  2. B
  3. D
  4. B
  5. A
  6. C
  7. A
  8. D
  9. E
  10. D
11. Max value of 120 at  $x = 15$ ,  $y = 0$   
Min value of  $-36$  at  $x = 0$ ,  $y = 12$
12. Bounded feasible region. Corner points at  $A(1/3, 16/3)$ ,  $B(5, 10)$ ,  $C(5, 2)$ ,  $D(3, 0)$



13. Unbounded feasible region. Corner points at  $A(0, 5)$ ,  $B(6/7, 20/7)$ ,  $C(3, 0)$   
 Min value of 64 at  $x = 6/7$ ,  $y = 20/7$



14. Corner points at  $A(0, 0)$ ,  $B(0, 2)$ ,  $C(3, 5/4)$ ,  $D(4, 0)$   
 Max value of 0 at  $x = 0$ ,  $y = 0$   
 Min value of  $-247/4$  (or  $-61.75$ ) at  $x = 3$ ,  $y = 5/4$



15. Minimize:  $\text{Cost} = 15000x + 12000y$   
 Subject to:  $40x + 20y \geq 2800$   
 $40x + 10y \geq 2000$   
 $20x + 70y \geq 5600$   
 $x, y \geq 0$

- 16a. 2 sacks of soybean meal and 4 sacks of oats  
 16b. Minimum cost is \$210