

1. (1,-1) 2. (4,2) 3. (-4,-6) 4. (-3,1) 5. No Solution 6. (1,4) 7. (2,-4)
8. (-2,-6) 9. (4,-1) 10. Many Solutions 11. (6,1) 12. (-5,-2) 13. (-1,2)
14. One Sol 15. One Sol 16. No Sol 17. One Sol 18. Many Sol
19. One Sol 20. No Sol 21. (4,11) 22. (-8,3) 23. (6,0) 24. (12,0)
25. (6,5) 26. (-1,-9) 27. (15,26) 28. (-7,12) 29. (7,5) 30. (0.75,7.25)
31. (4,3) 32. (1,7) 33. (4,4) 34. (1,7) 35. (1,-2) 36. (-3,10) 37. Many Sol 38. No Sol
39. $4A + 6C = 294$ $A = \text{Adult admission is } \36 $C = \text{Children's admission is } \25
 $3A + 5C = 233$

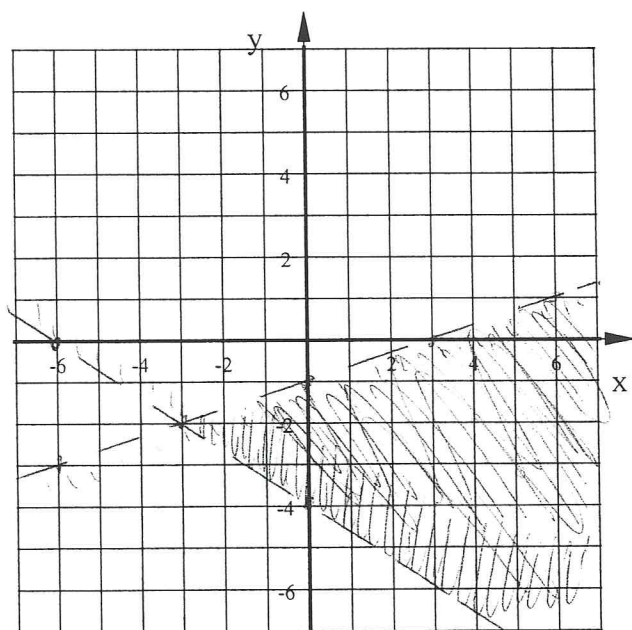
40. $\text{Expenses} = 2500 + 3T$ $\text{Income} = 20T$
Break-even EQ: Break-even point=147.06→148 t-shirts
Expenses = Income

$$2500 + 3T = 20T$$

41. $G + L = 20$ $G = \text{gallons of grape}=15$ $L = \text{gallons of Lime}=5$
 $0.08G + 0.16L = 0.10(20)$

42. $(p + w)4 = 800$ $p = \text{speed of the plane}=180 \text{ mph}$ $w = \text{speed of the wind}=20 \text{ mph}$
 $(p - w)6 = 960$

43.



44.

