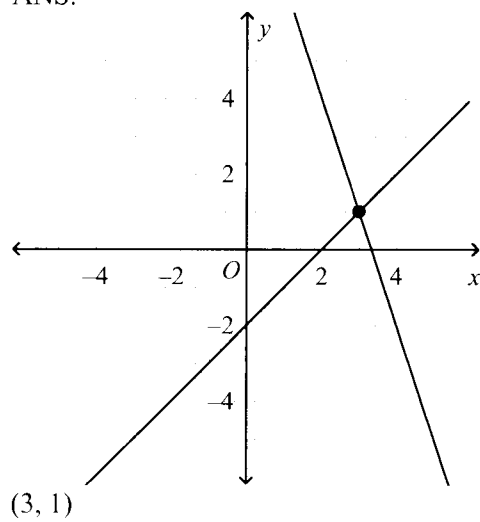


**Algebra 2  
Answer Section****Ch. 3 Practice Test****Ms. Chan****SHORT ANSWER**

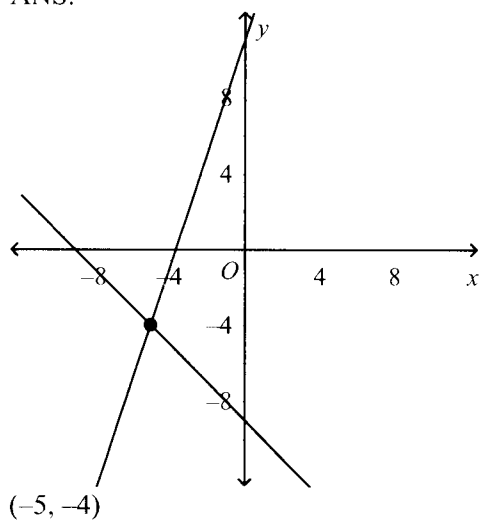
1. ANS:



DIF: L1

REF: 3-1 Graphing Systems of Equations

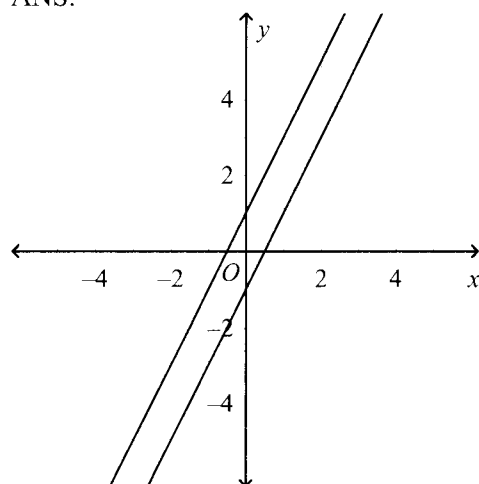
2. ANS:



DIF: L1

REF: 3-1 Graphing Systems of Equations

3. ANS:



no solutions

DIF: L1 REF: 3-1 Graphing Systems of Equations

4. ANS:  
independent

DIF: L1 REF: 3-1 Graphing Systems of Equations

5. ANS:  
dependent

DIF: L1 REF: 3-1 Graphing Systems of Equations

6. ANS:  
inconsistent

DIF: L1 REF: 3-1 Graphing Systems of Equations

7. ANS:  
(0, -5)

DIF: L1 REF: 3-2 Solving Systems Algebraically

8. ANS:  
(24, -2)

DIF: L2 REF: 3-2 Solving Systems Algebraically

9. ANS:  
(-1, -6, 1)

DIF: L1 REF: 3-6 Systems With Three Variables

10. ANS:  

$$\begin{cases} a + c = 52 \\ c = 3a \end{cases}; 13 \text{ adults, } 39 \text{ children}$$

DIF: L1 REF: 3-2 Solving Systems Algebraically

11. ANS:  
(5, 3)

DIF: L1 REF: 3-2 Solving Systems Algebraically

12. ANS:  
(0, -2)

DIF: L1 REF: 3-2 Solving Systems Algebraically

13. ANS:  
 $\left(\frac{1}{4}, -\frac{1}{3}\right)$

DIF: L2 REF: 3-2 Solving Systems Algebraically

14. ANS:  
no solutions

DIF: L1 REF: 3-2 Solving Systems Algebraically

15. ANS:  
(1, 3, 1)

DIF: L1 REF: 3-6 Systems With Three Variables

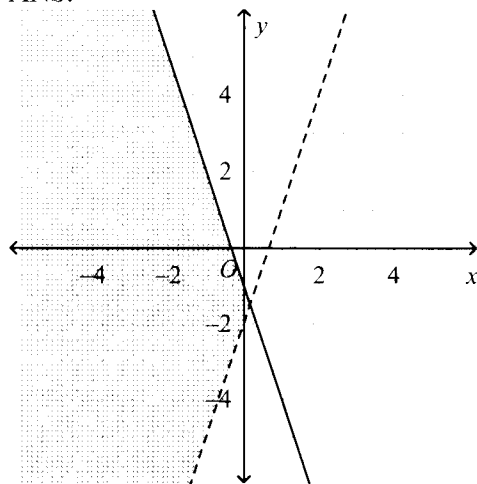
16. ANS:  
(-3, -2, -5)

DIF: L1 REF: 3-6 Systems With Three Variables

17. ANS:  
(-3, -7, -4)

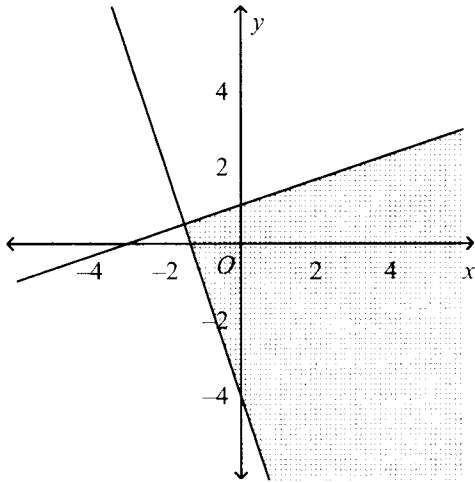
DIF: L1 REF: 3-6 Systems With Three Variables

18. ANS:



DIF: L1 REF: 3-3 Systems of Inequalities

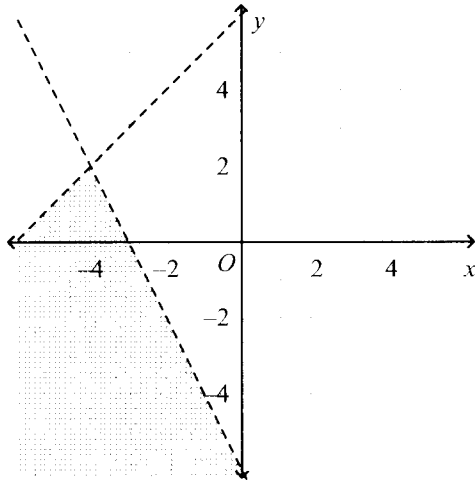
19. ANS:



DIF: L1

REF: 3-3 Systems of Inequalities

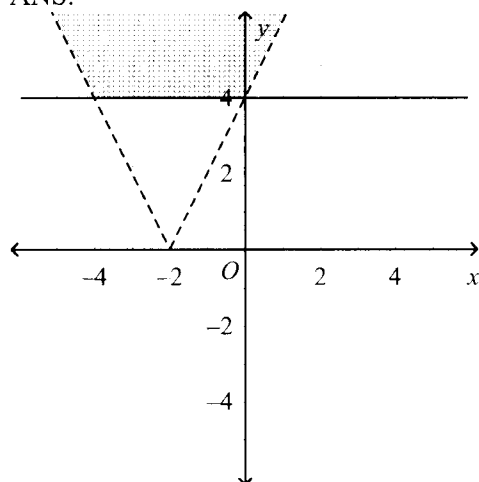
20. ANS:



DIF: L1

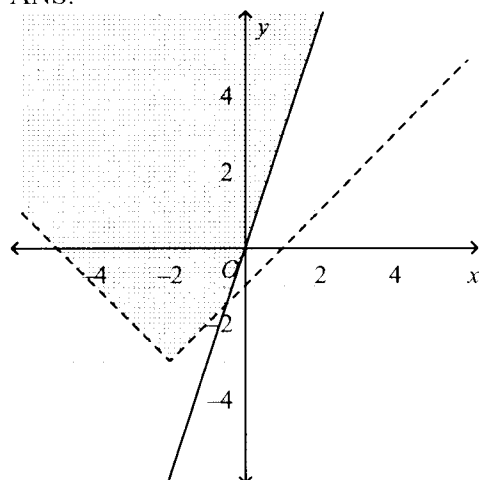
REF: 3-3 Systems of Inequalities

21. ANS:



DIF: L1 REF: 3-3 Systems of Inequalities

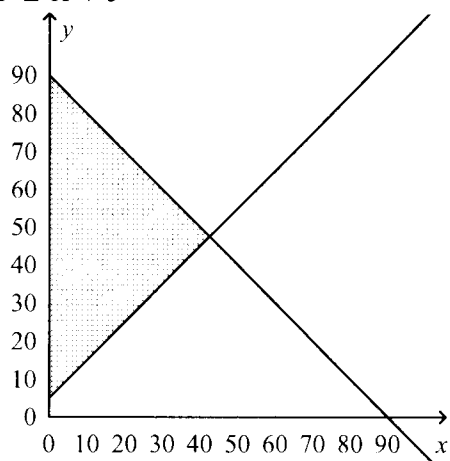
22. ANS:



DIF: L2 REF: 3-3 Systems of Inequalities

23. ANS:

$$\begin{cases} X \geq 0 \\ Y \geq 0 \\ X + Y \leq 90 \\ Y \geq X + 5 \end{cases}$$



DIF: L2                      REF: 3-3 Systems of Inequalities

24. ANS:

maximum value at (9, 0); 27

DIF: L1                      REF: 3-4 Linear Programming

25. ANS:

(0, 2), (2, 0), (4, 6); maximum value of 8

DIF: L2                      REF: 3-4 Linear Programming