

Math 990
Practice Midterm #1 Answer Key

1. $x = 13$

2. $z = 8$

3. $x = 4$

4. $a = 16$

5. $x = 6$

6. $y = -2$

7. $w = 3$

8. $y = -6$

9. $a = 3$

10. $x = 4$

11. 40 inches and 44 inches

12. \$865

13. length = 130 meters

14. width = 10 ft and length = 5 ft

15. -34 and -33

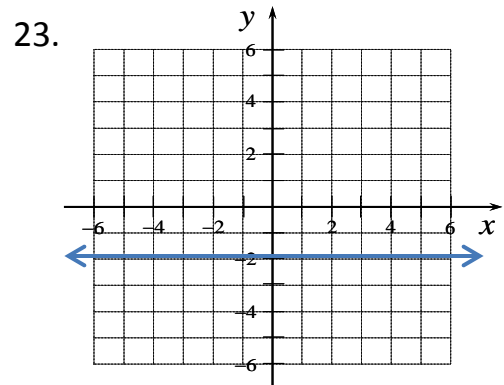
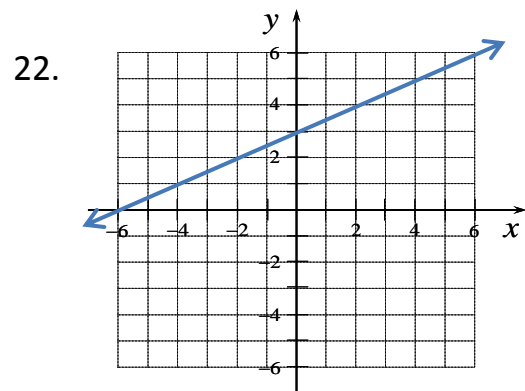
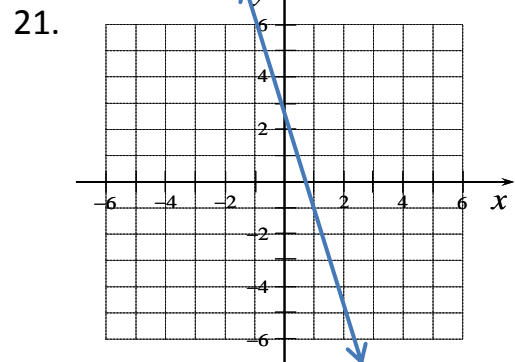
16. 21 and 23

17. $b \leq 4$ 

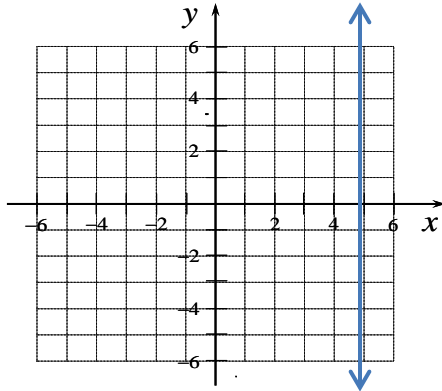
18. $n > -4$ 

19. $(0, -4)$

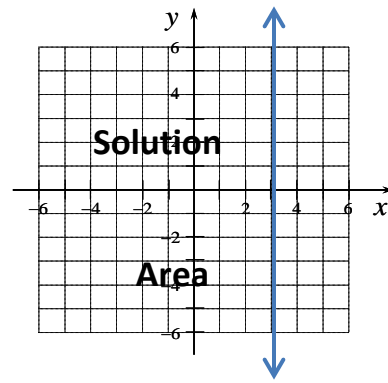
20. $(2\frac{1}{2}, 0)$



24.



35.



25. $-\frac{2}{7}$

26. $\frac{1}{6}$

27. $y = 4x - 5$

28. $y = -2x - 11$

29. $y = -2x + 13$

30. $y = x + 5$

31. Domain = 2, 4, 6, 8

Range = 5, 4, 2

Yes

32. Domain = 4, 2, 5

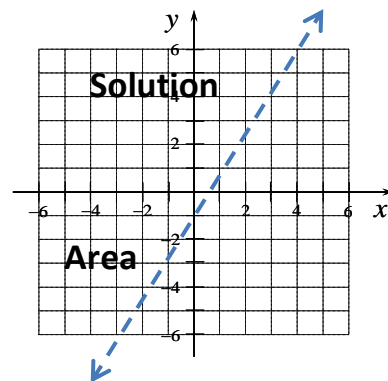
Range = 1, 7, 0, 8, 2

No

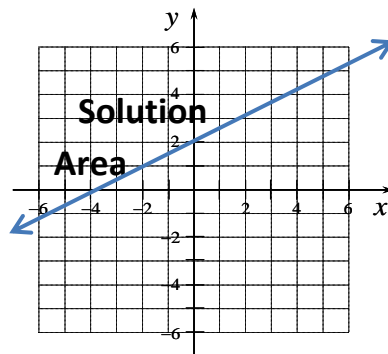
33. $f(3) = 1$

34. $f(-2) = 0$

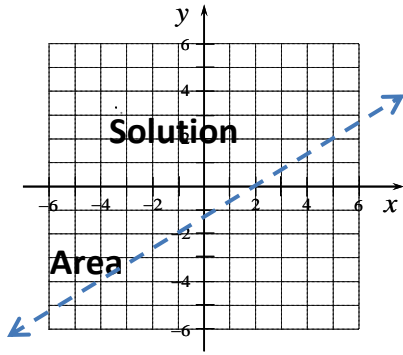
36.



37.



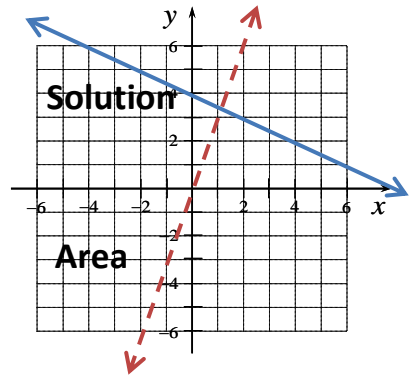
38.



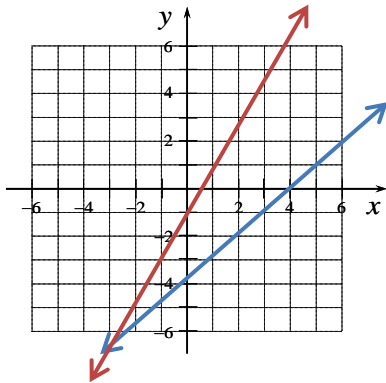
47. 300 oz of 55%
200 oz of 30%

48. 50 adults and 65 children

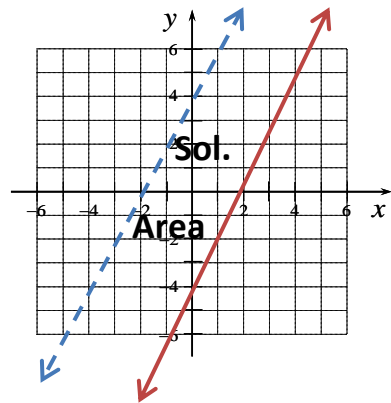
49.



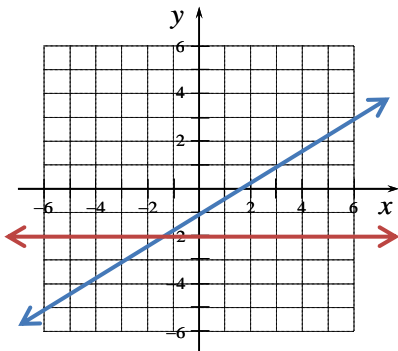
39.



50.



40.



41. (3, 4)

42. (11, 4)

43. (3, -1)

44. (0, 2)

45. (6, 0)

46. (-14, 11)