Algebra I **Handout #3 (Test)** **2011**

Name: _____ **Score:** _____

- You will see the same problems as this handout on Final Exam (about 40%) so you should understand most of problems in this handout to pass the final exam. Remember that if you fail the final exam then you will probably have to retake this Algebra I class next year.
- The Guest teacher will grade this and give you back on Monday to study and go over your mistakes.
- **If you are disrespectful to the Guest Teacher then your misbehavior will be marked to lower your grade in this semester.**

[Integer Operations]

#1. 9 + 18 =

#2. 23 - 17 =

#3. 8 – 12 =

#4. -7 + 13 =

#5. (-13) + (-24) =

#6. -19 - 8 =

#6. (-5) x (-7) =

#7. $48 \div (-6) =$

#8. 13 x 4

#9. 27 x 8

#10. 28 x 13

[Opposite and Reciprocal] #11. Opposite of -100 = #12. Reciprocal of $\frac{ay}{x^2}$ =

#13. If $\frac{5}{2}(w) = 1$, what is the value of w? A) $\frac{2}{5}$ B) $\frac{5}{2}$ C) $-\frac{3}{5}$ D) $-\frac{5}{2}$

#14. Which number does not have a reciprocal? A) -1 B) 1000 C) $\frac{1}{1000}$ D) 0

[Exponents] #15. Which one is equivalent to x^9x^2 ? A) x^8x^4 B) x^7x^4 C) x^6x^4 D) x^5x^4

#16. $x^6x^4 =$ #17. $\frac{x^7}{x^3} =$ #18. $x \cdot x =$ #19. $\frac{x^5}{x^5} =$

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#20. $\frac{x^5}{x^7} =$ #21. $x^2 \cdot x =$ #22. $\frac{4x^6}{2x^5} =$

#23. $6a^2bc^3 \cdot 3ab^2c^2 =$ #24. $2x^2y^3z^2 \cdot 7xz^2 =$

[Solve Equations]

#25. x - 16 = 3 **#26. 5 = 5 + x**

#27. 5x = 20 **#28.** $\frac{x}{2} = 13$

#29. $\frac{x}{2} + 3 = 11$ **#30.** $-3 = \frac{x}{3} - 7$

#31. 8x –10 – 3x = 20 **#32. 7x + 2(x + 6) = 39**

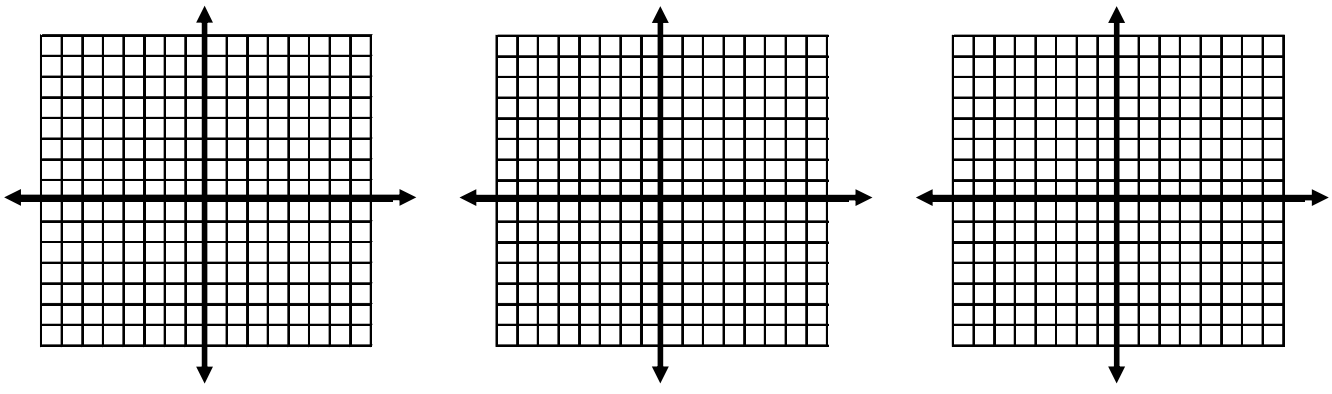
#33. 8x + 5 = 6x + 1 **#34. 8x + 5 = 4x – 11**

[Line]

#35. Y-intercept is -3 and Slope is -5. Write an equation: y = _____

Graph a Line

#36. y = 2x - 3 #37. y = -5 #38. $y = -\frac{1}{2}x + 1$



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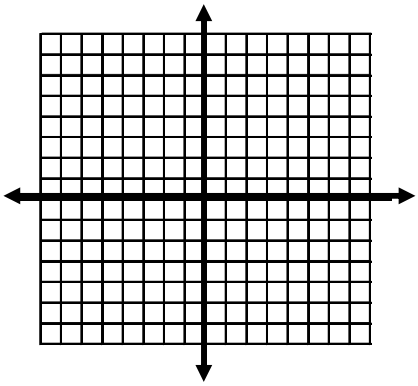
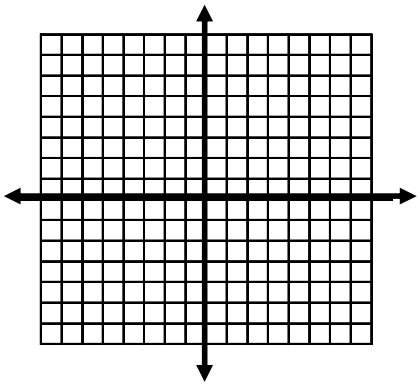
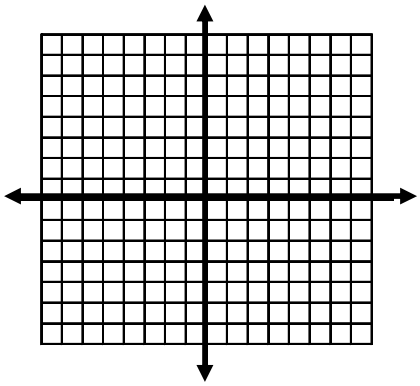
#39. x = -2



#40. x = 0



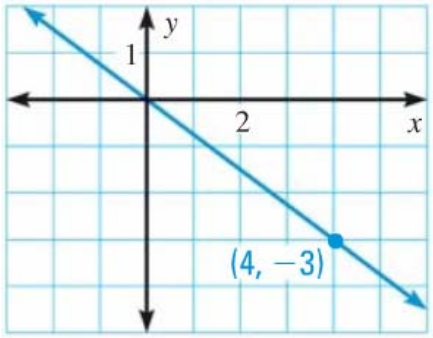
#41. y = -x



Find Y-intercept and Slope of the line.

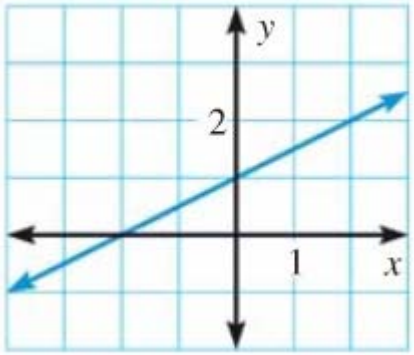
#42. Y-intercept =

Slope =



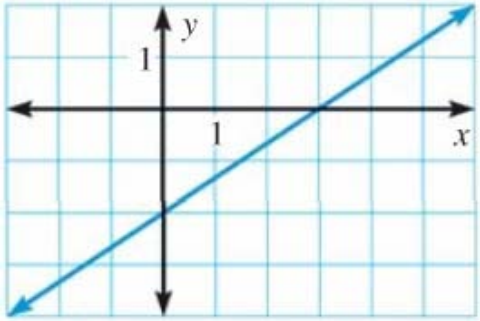
#43. Y-intercept =

Slope =



#44. Y-intercept =

Slope =



Change to y = mx+b (leave y alone)

#45. y + 2x = 5

#46. 4x + y = -7

#47. 3y = -9x + 21

#48. -8x – 4y = -12

#49. Find the Y-Intercept of 2y + 4x = 12.

#50. Which of the following statements describes parallel lines?

A) Same y-intercept B) Same slope C) Opposite slope D) Opposite x-intercept