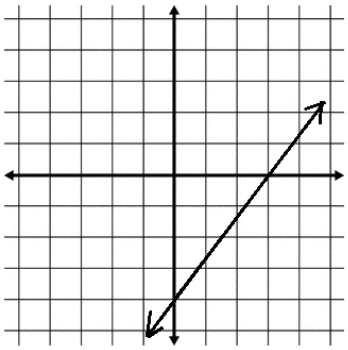
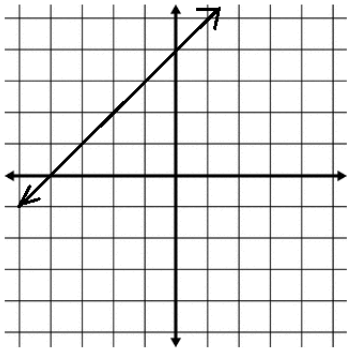
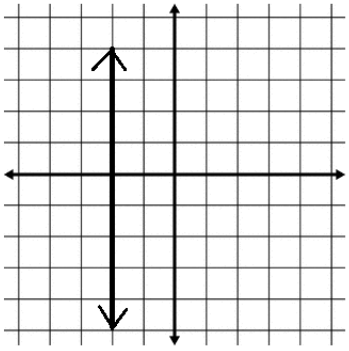
Algebra 1 B **Name _____**

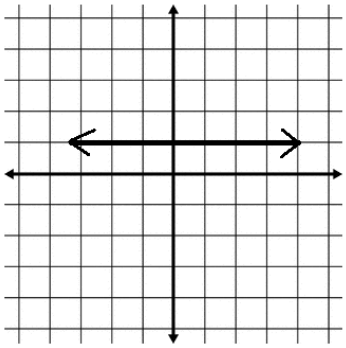
Unit 4 Objectives 2 – 5 Practice **Period _____ Date _____**

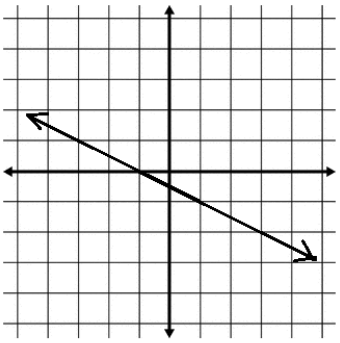
Objectives 2 and 3 – Write the equation of the line in slope-intercept form. All fractions should be in simplest form.

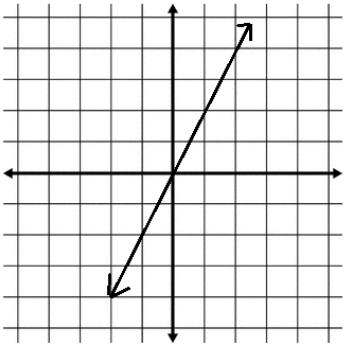
1. 

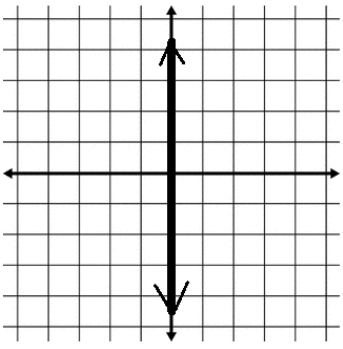
2. 

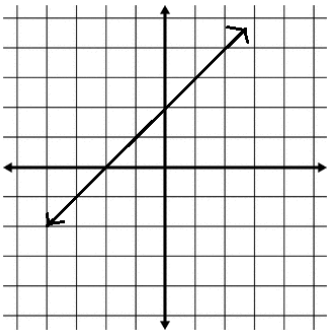
3. 

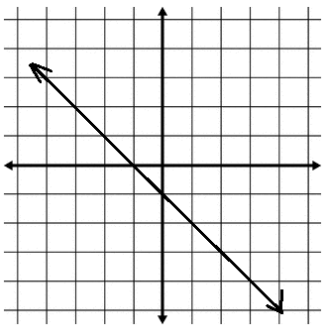
4. 

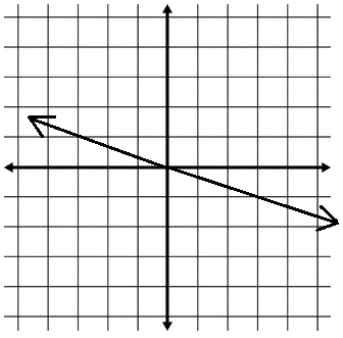
5. 

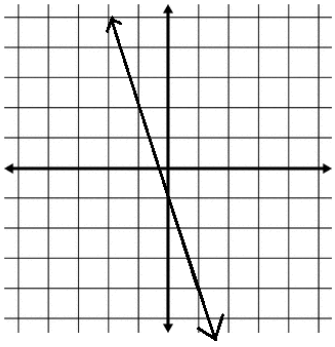
6. 

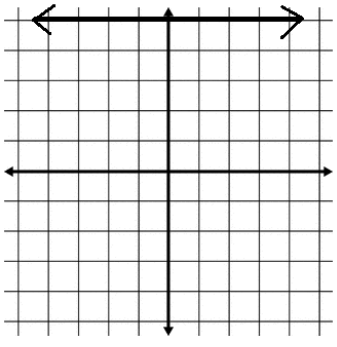
7. 

8. 

9. 

10. 

11. 

12. 

Objective 4 – Write the equation of the line in slope-intercept form. All fractions should be in simplest form.

13. A line with slope $-\frac{1}{2}$ that passes through (–6, 7).

14. A line that passes through the point (–3, –22) and has slope of 4.

15. A horizontal line through the point (–3, 8).

16. A line with slope of $\frac{3}{2}$ that contains the point (–4, –6).

17. A line with slope = 0 and passes through (–2, 4).

18. A line with a slope of –1 that passes through (–5, –1).

19. A line with slope equal to $\frac{1}{4}$ that contains the point (–12, –9).

20. A vertical line that contains the point (–4, –1).

Objective 5 – Write the equation of the line in slope-intercept form. All fractions should be in simplest form.

21. A line that passes through the points (1, 6) and (3, –4).

22. A line that contains the points (2, 1) and (4, 5).

23. A line that passes through the points (3, –2) and (–6, 4).

24. A line that passes through the points (–4, 2) and (–1, –7).

25. A line that passes through the points (–2, 4) and (–6, –8).

26. A line that passes through the points (–8, –4) and (4, 2).

27. A line that passes through the points (–2, –3) and (–8, –9).

28. A line that passes through the points (12, 2) and (7, 2).

Answers

$x = -4$

$x = -2$

$x = 0$

$y = 1$

$y = 2$

$y = 4$

$y = 5$

$y = 8$

$y = -\frac{2}{3}x$

$y = -\frac{1}{3}x$

$y = \frac{1}{2}x$

$y = \frac{3}{2}x$

$y = 2x$

$y = -5x + 11$

$y = -3x - 10$

$y = -3x - 1$

$y = -x - 6$

$y = -x - 1$

$y = -\frac{1}{2}x - \frac{1}{2}$

$y = -\frac{1}{2}x + 4$

$y = \frac{1}{4}x - 6$

$y = x - 1$

$y = x + 2$

$y = x + 4$

$y = \frac{4}{3}x - 4$

$y = 2x - 3$

$y = 3x + 10$

$y = 4x - 10$