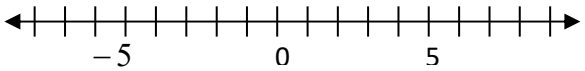
Algebra Foundations Quiz #28 Week 11 Monday **Name**_____

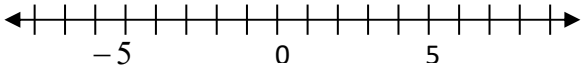
SHOW ALL WORK to receive full credit.

Graph the following inequalities on the number line. (2 points each)

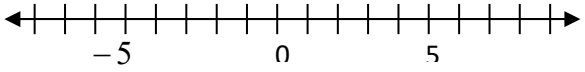
1. $x \leq -2$



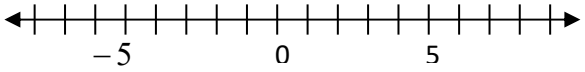
2. $x > 0$



3. $3 \leq x$

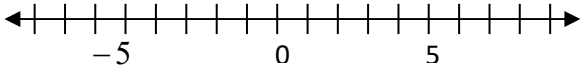


4. $1 > x$

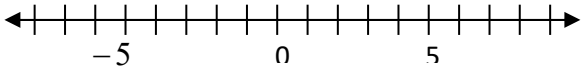


Solve and graph the following inequalities on the number line. (4 points each)

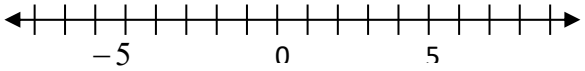
5. $x - 4 \geq 1$



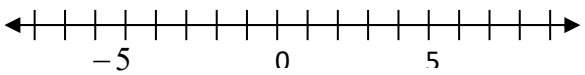
6. $-2x - 3 < 5$



7. $8x - 3 < 4x - 11$



8. $-3(x - 5) \geq 2x + 5$



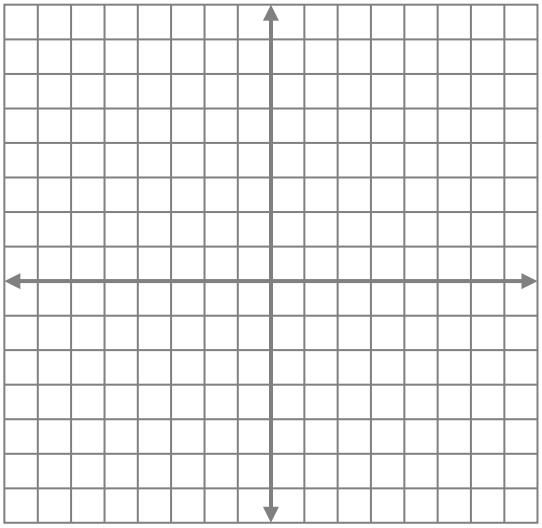
24 points

On the same grid, graph the line and label your lines a-c. (4 points each)

9. Line "a" $y = -\frac{1}{3}x + 6$

10. Line "b" $y = \frac{5}{2}x - 2$

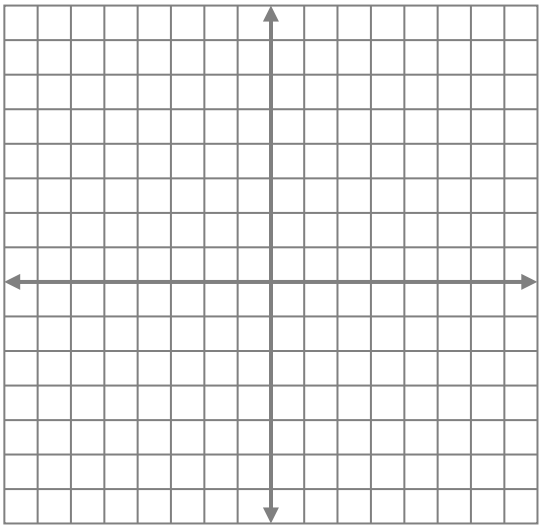
11. Line "c" $y = -3x$



Graph both lines and label the point of intersection: (6 points: 2 pts. per line, 2 pts. for intersection.)

12. $y = 2x - 2$ *and* $y = -\frac{1}{2}x + 3$

Point of intersection: _____



Solve the following equation. Show all work. Answer must be reduced to lowest terms. Answer may be given as an improper fraction or a mixed number. (4 points each)

13. $\frac{2x+4}{-3} = \frac{x-2}{4}$

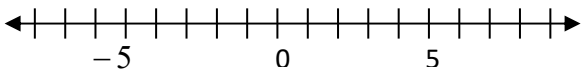
14. $-6(3x - 5) + 6 = 7 - (4x + 9)$

Algebra Foundations Quiz #29 Week 11 Tuesday **Name**_____

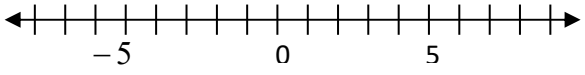
SHOW ALL WORK to receive full credit.

Graph the following inequalities on the number line. (2 points each)

1. $x \leq -3$

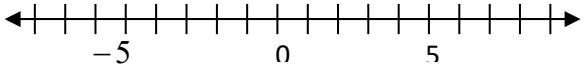


2. $x > 2$

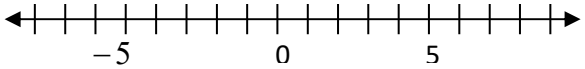


Solve and graph the following inequalities on the number line. (4 points each)

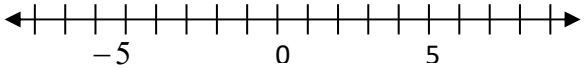
3. $x + 5 \geq 1$



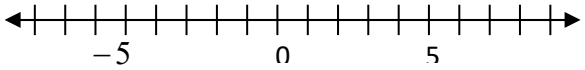
4. $-4x + 1 > 5$



5. $-3x + 5 < 2x - 10$



6. $6(2x + 5) \geq 6x + 18$



20 points

Use PEMDAS to simplify the following expressions. (3 points each)

7. $26 - 2 \cdot 8 + 3 =$ _____

8. $(4 + 9) \cdot 4 =$ _____

9. $14 - 12(5 - 1) =$ _____

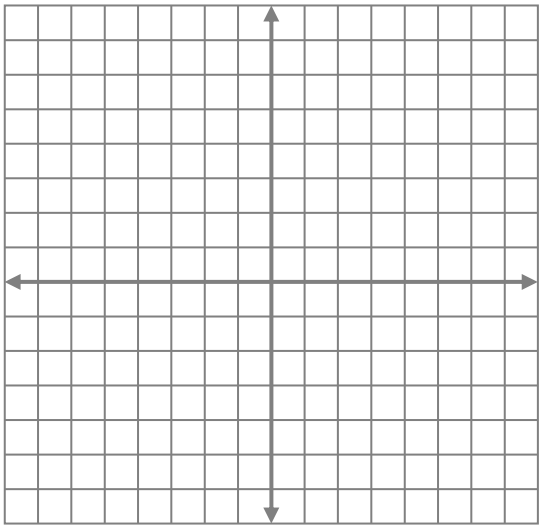
10. $16 + 16 \div 8 \cdot 4 =$ _____

On the same grid, graph the line and label your lines a-c. (4 points each)

11. Line "a" $y = -\frac{3}{4}x - 5$

12. Line "b" $y = \frac{1}{4}x + 3$

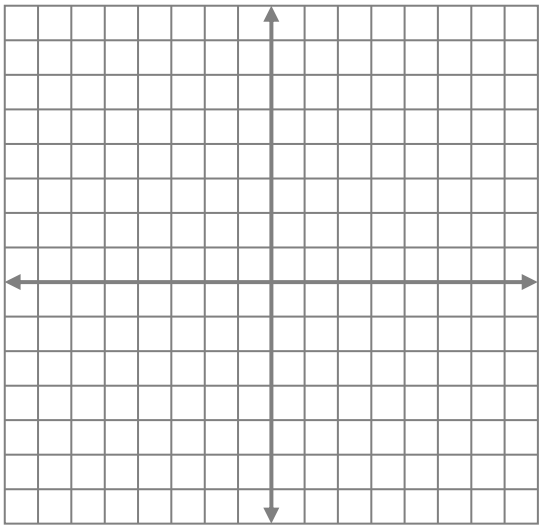
13. Line "c" $y = -x + 4$



Graph both lines and label the point of intersection: (6 points: 2 pts. per line, 2 pts. for intersection.)

14. $y = x + 4$ *and* $y = -\frac{4}{3}x - 3$

Point of intersection: _____



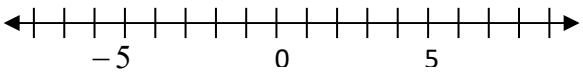
30 points

Algebra Foundations Quiz #30 Week 11 Friday **Name**_____

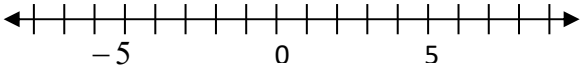
SHOW ALL WORK to receive full credit.

Graph the following inequalities on the number line. (2 points each)

1. $x \leq -5$

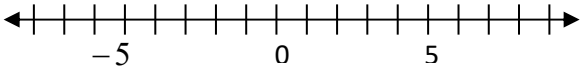


2. $3 < x$

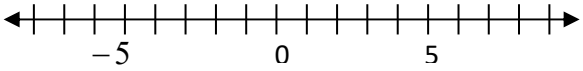


Solve and graph the following inequalities on the number line. (4 points each)

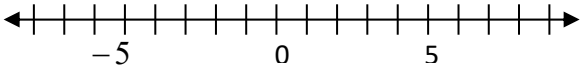
3. $6x - 5 \geq 13$



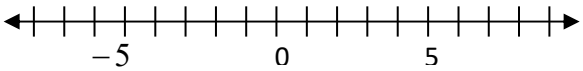
4. $-4x - 2 > -18$



5. $3(4 + 7x) \geq 6(3x + 6)$



6. $8 - 3x - 10 + 5x < 6x - 9 + x - 3$



20 points

Use PEMDAS to simplify the following expressions. (3 points each)

7. $4 + 18 \div 2 \cdot 3 =$_____

8. $6 + 2^3 - 14 \div 2 =$_____

9. $7^2 - (9 - 6)^2 \cdot 4 =$_____

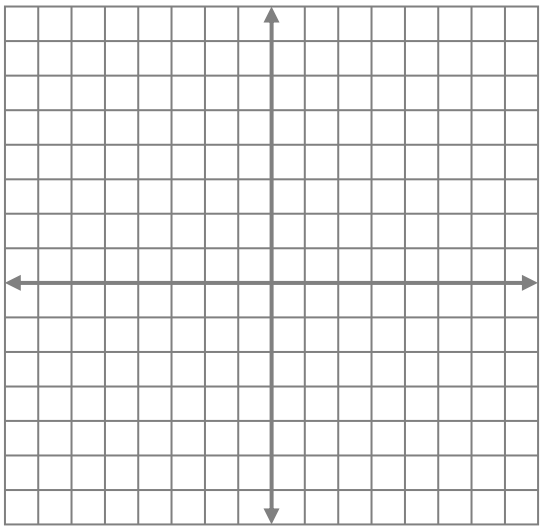
10. $(5 - (4 - 10) + 9) \div 2 + 3 =$_____

On the same grid, graph the line and label your lines a-c. (4 points each)

11. Line "a" $y = -\frac{4}{3}x + 7$

12. Line "b" $y = 3x + 1$

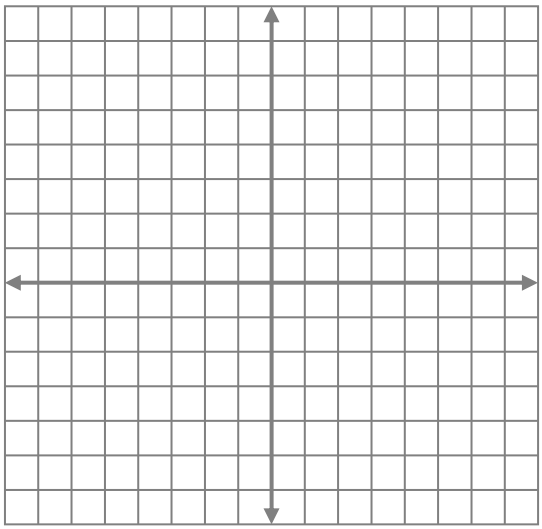
13. Line "c" $y = -x - 2$



Graph both lines and label the point of intersection: (6 points)

14. $y = -2x - 1$ *and* $y = \frac{2}{3}x + 7$

Point of intersection: _____



30 points