SHOW ALL WORK to receive full credit.

Simplify the exponents. (1 point each)

 $(x^{-4})^{-7} = 2. \quad x^{-12} \cdot x^7 = 3. \quad \frac{x^8}{x^{10}} =$ 1. 6. $\frac{x^{-3}}{x^{-7}} =$ 5. $x^{-5} \cdot x^5 =$ $(x^2)^{-4} =$ 4.

Fractions: Perform the indicated operation. Answers must be left as proper fractions or mixed numbers. Answers must be reduced to lowest terms. (1 point each)

7. $5\frac{5}{8} \cdot 2\frac{2}{9} =$ 8. $5\frac{1}{4} - 2\frac{5}{6} =$

9.
$$\frac{7}{16} + \frac{3}{4} =$$
 10. $5\frac{1}{7} \div 1\frac{1}{14} =$

Solve the following equations. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (4 points)

11.
$$-8(4x + 3) = 3(9 - 5x)$$

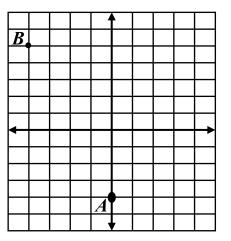
12. $9x - (-4) - 7x = 8 - (-6x) + 5$

Give the ordered pairs of each point. (1 point each)

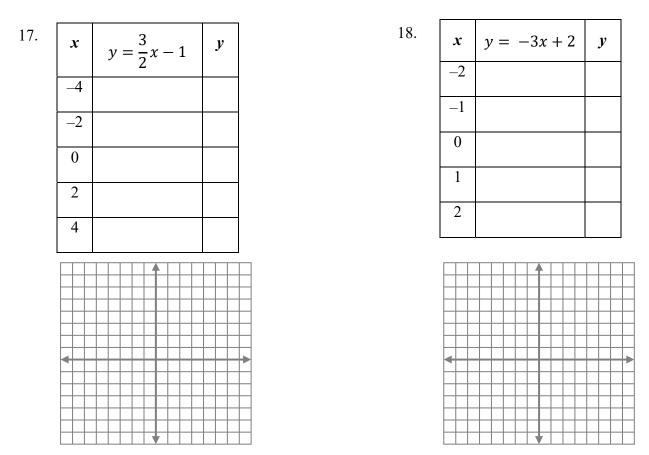
13. A_____ 14. B_____

Graph and label each of the following ordered pairs on the grid to the right. (1 point each)

15. C (2, 6) 16. D(-3, -5)

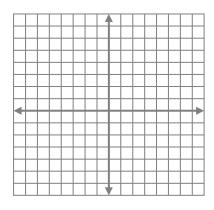


Complete the domain-range tables, and graph the lines. (20 points)



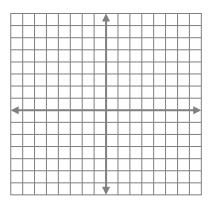
Plot the points, create a slope triangle, and determine the slope. Reduce to lowest terms. (4 points each)

19. (-2, 7) and (3, 4)



slope:

20. (-4,-2) and (2, 8)





Name

SHOW ALL WORK to receive full credit.

Simplify the exponents. (2 points each)

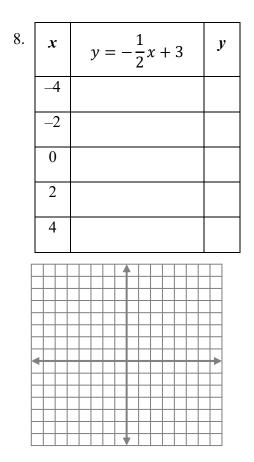
1.
$$(x^{-6})^{-8} =$$
 2. $x^4 \cdot x^{-15} =$ 3. $\frac{x^{-8}}{x^{-14}} =$

Fractions: Perform the indicated operation. Answers must be left as <u>proper</u> fractions or mixed numbers. Answers must be reduced to lowest terms. (1 point each)

4.
$$3\frac{5}{8} + 2\frac{7}{8} = 5.$$
 $4\frac{1}{4} - \frac{5}{6} =$

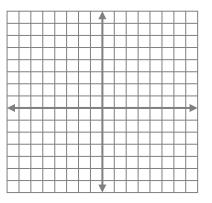
6.
$$\frac{5}{12} \cdot 1\frac{1}{15} =$$
 7. $1\frac{3}{4} \div 2\frac{5}{8} =$

Complete the domain-range tables, and graph the lines. (5 points per table, 3 points per graph)

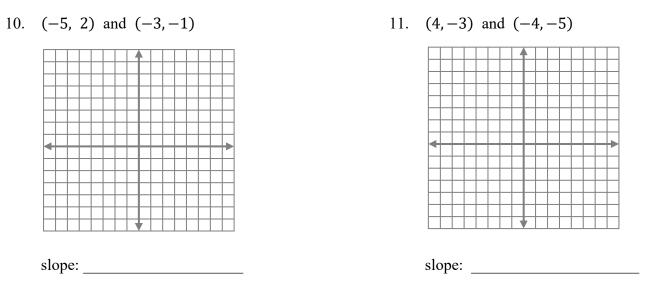


9.

x	y = 4x - 2	у
-2		
-1		
0		
1		
2		



Plot the points, create a slope triangle, and determine the slope. Reduce to lowest terms. (4 points each)



Using the formula, $m = \frac{y_2 - y_1}{x_2 - x_1}$, find the slope of the line that passes through the given points. (4 points each)

12. (6, -1) and (9, 4)

```
13. (0, 5) and (4, 3)
```

Solve the following equations. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (4 points each)

14. 6x - 7 + 5x + 2 = 4x + 3 - 2x + 1 15. -4(2x - 3) = 8x