NAME_____**DATE**_____**PER.**_____

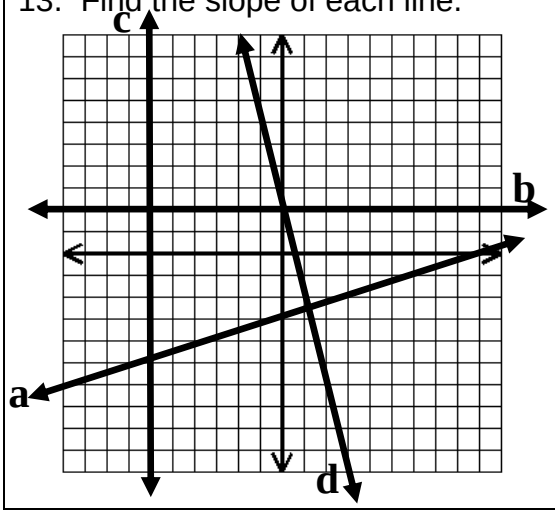
FACTORING WITH GREATEST COMMON FACTOR

Factor.

1. $14x - 6 =$ _____	2. $8x^2 + 2 =$ _____
3. $24x^2 + 36x =$ _____	4. $18x^3 - 15x^2 =$ _____
5. $12x^3 - 18x =$ _____	6. $8x^4 + 4x^2 =$ _____
7. $16x^3 - 8x^2 - 12x =$ _____	8. $15x^2 - 6x - 9 =$ _____
9. $4x^2 + 10x - 18 =$ _____	10. $16x^4 - 24x^3 - 32x^2 =$_____
11. $22x^4 - 33x^3 + 11x^2 =$ _____	12. $10x^3 + 2x =$ _____

Review.

13. Find the slope of each line.



line a = _____

line b = _____

line c =_____

line d = _____

14. Solve for x: $2(x + 3) – 5 = 17 – (4x – 2)$

15. Solve for x: $21 = \frac{4}{9}x - 7$

16. Lisa's scores for 3 video games were 245, 672, and 437. What would she have to score in the next game to tie her friend Anne's average score of 438? *(Set up an equation and solve)*

17. At a farmer's market strawberries cost $1.60 per pint, blueberries cost $2.30 per pint. A shopper bought twice as many pints of strawberries as pints of blueberries, and spent a total of $11.00. Write, but DO NOT SOLVE, a system of equations that could be used to determine how many pints of each the shopper bought.

18. The length of a rectangle is 5 feet more than the width. The perimeter is 22 feet. Write, but DO NOT SOLVE, a system of equations that could be used to determine the width of the rectangle.

19. Simplify $(4x^2y^2)^3(2xy^3)^2$

20. What is the area of the figure shown?