Name	K	(E	7
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Like Terms: same variable(s) with same exponents

Date

Period

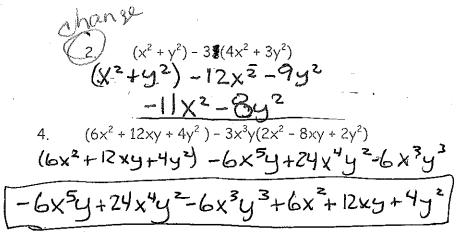
## Polynomials

Monomial	Binomial	Trinomial	
*numbers and variables	*sum of 2 monomials	*sum of 3 monomials	
combined through	(2 monomials combined by + or	(3 monomials combined by + or	
multiplication	-)	-)	
Examples: -3x8y	Examples: 4x - 7	Examples: a + 2b + 4c	
-9	2x + 9y	$x^2 + 8x + 9$	
14m	2 + 13×	$2x^2 + 2xy + y^2$	

A polynomial is a monomial or sum of monomials.

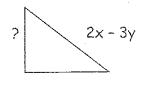
Find each sum or difference.

1. 
$$3x^{4}(4x-5)+(3x+6)$$
  
 $12x^{5}-15x^{4}+(3x+6)$   
 $12x^{5}-15x^{4}+3x+6$   
3.  $(3x^{2}-5xy^{2}+y^{3})+(-3x^{2}-5xy^{2}-y^{3})$   
 $3x^{2}+-3x^{2}=0$   $y^{3}+-y^{3}=0$ 



Some of the measures of polygons are given. P represents the measure of the perimeter. Find the measure of the other side or sides.

5. 
$$P = 5x + 2y$$

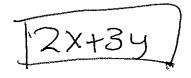


6. 
$$P = 14x^2 + 10x + 12$$

$$3x^2 + 5$$

$$3x^2 + 5$$
?

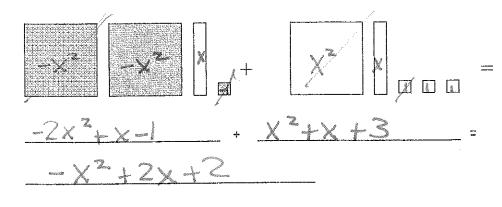
(5x+24)-[(2x-34)+(x+24)]

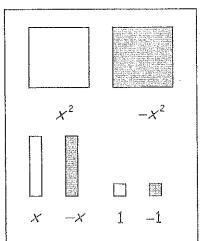


14x2+10x+12=2l+2(3x2+5) 14x2+10x+12=2l+2(3x2+5) -6x2-10x+2=2l 8x2+10x+2=2l 8x2+10x+2=2l

## /zem) opposite pairs: - | and | = C

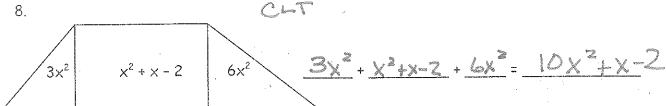
7. Use the algebra tiles legend to simplify the following sums. Record the information in the spaces provided.





Find the total area of the polygon, given the area of each of its parts.

8.



Solve.

9. Wal-Mart sold (3x + 7) calculators last week. This week they sold (6x - 2) calculators. How many calculators did they sell during the 2 week period? (APP)

10. Chris has  $(4x^2 - 5x)$  pounds of feed for his dog. Julie has 4x(7x + 13) pounds of feed. If they combined the feed, how much would they have for their dogs?

11. Last week Stephanie worked  $(7x^2 - 4x + 12)$  hours, while Abraham worked  $(4x^2 + 2x - 1)$  hours. How many more hours did Stephanie work last week? SUbdrac F

12. Judith received \$(24x + 18) for making good grades on her report card. She went on a shopping spree and spent (3x - 6) at the Gap, (15x + 12) at Old Navy, and (-4x + 8) at Foleys. How much of her grade money did she have left after her shopping spree?