

MasterMath

Add, Subtract and Multiply Polynomials

Name _____

Date _____

1. Referring to this expression, and using parts or all of this expression, fill in the blanks on this table with examples, or answer the question.

$6x^3 - 3x^2 + 8x + 12 + 3x$	polynomial	
	monomial	
	degree of expression?	
	leading coefficient?	
	binomial	
	trinomial	
	like terms	

2. FOIL stand for:

F	
O	
I	
L	

Find the sum, difference or product:

3. $(3z^2 + 8z - 6) - (z^2 - 2z - 10) =$

4. $(12a^3 - 4a + 8) + (9a^3 + 2a^2 + 5a + 1)$

5. $(3x^2 + 4 + 2x) - (x^2 + 3x - 4)$

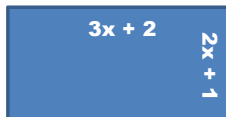
6. $3c(2a + 8)$

7. $7x^2(2x^2 + 3x - 4)$

8. $(x + 3)(x - 3)$

9. $(z + 3)(2z - 5)$

10. Find the area of this figure:



11. Simplify: $3x(2x^2 + 5x - 6) - (4x^3 + 4x^2 - x - 6)$

12. The length of the sides of the square are $(2x + 2)$. What is the area of the shape that is blue?

