

NAME: _____

P.I. A.A.13: Multiply monomials and polynomials

1. Explain the meaning of each letter in the term FOIL.
2. What are two methods you can use to multiply two binomials?
3. What are two methods you can use to multiply a trinomial and a binomial?
4. Find the product $(2x - 3)(x + 1)$. Explain how to use a graphing calculator to check your product.
5. Suppose you graph $y = (x + 1)(x - 5)$ and $y = x^2 - 4x - 5$ on the same calculator screen. What will be true about the two graphs? Use graphs to check your answer.

Each letter tells you which terms you should multiply when finding the product of two binomials. The

[1] letters stand for “First, Outer, Inner, Last”.

[2] You can either use tiles or the distributive property.

[3] You can use the vertical method or the horizontal method to distribute each term in a factor.

$2x^2 - x - 3$; Graph the functions $y = 2x^2 - x - 3$ and $y = (2x - 3)(x + 1)$. The graphs are the same so the

[4] product is correct.

[5] They will be the same.
