

## WORKSHEET #2 - Multiplying Polynomials

### FOIL Practice (AKA "Rainbow")

Find Each Product.

1.  $(x + 1)(x + 1)$

2.  $(x + 1)(x + 2)$

4.  $(x + 3)(x + 2)$

6.  $(x - 6)(x + 2)$

8.  $(y + 6)(y + 5)$

10.  $(y + 6)^2$

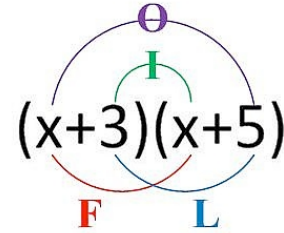
3.  $(x + 2)(x + 3)$

5.  $(x + 4)(x + 3)$

7.  $(x - 5)(x - 4)$

9.  $(2x + 1)(x + 2)$

11.  $(4a - 7)^2$



Find Each Product. "Rainbow"

12.  $x(x^2 + 9x - 5)$

13.  $2x(4x^3 + 3x - 8)$

14.  $(x - 4)(x^2 - 2x + 6)$

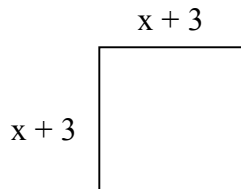
15.  $(2x - 3)(4x^2 - 3x + 3)$

16.  $(2x - 3)(x^2 - 2x + 1)$

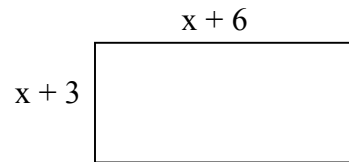
17.  $(3x - 2)(2x^2 + 4x - 1)$

Find the area of each shape.

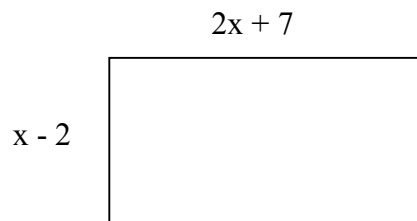
18.



19.



20.



21.

