Multiplying Polynomials

Use the Distributive Property (works for any multiplication)

Ex) Simplify $3(5z - 6) =$

Ex) Simplify $2x^2y(-3x + 2y - 4) =$

Ex) Simplify $(b^2 + 2b - 1) - 3b(b + 5) =$

Ex) Simplify $(a + 1)(a^2 + 2a + 1) =$

Use FOIL: Front   Outer   Inner   Last

(only good for multiplying binomials)

Ex) Simplify $(z + 3)(z + 4)$

Using Distributive Property   Using FOIL

Ex) Simplify $(x + 1)(x + 3)$

Ex) Simplify $(3w + 7)(2w - 5)$

TRY – Simplify

1. $6(4a - 2)$

2. $(8v - 3)(-5v)$

3. $(b + 6)(b - 1)$

4. $-5p^2(p^2 + 2p + 1)$

5. $(2t - 5)(5t - 2)$

6. $(2d + 4)^2$

7. $8w - 5(2w + 7)$

8. $(2n - 7)(n^2 - n + 3)$

Homework: pg 79 #3-18(x3); pg 80-81 #1,2,6