Module 1 – Special Products and Factoring

Lesson 1 – Special Products

Name _____

Find all products for each section. Show all work.

Find the product.

1. $(3g-4h)(g+2h)$

2. $(6x-5)(2x-3)$

3. $(5c+8)(3c-1)$

4. $(9y+4z)(y+8z)$

5. $(ab-2c)(2ab+3c)$

Find the squares.

1. $(8x+3)^2$

2. $(6y-7)^2$

3. $(2a+3b)^2$

4. $(5p-2r)^2$

5. $(10+11m)^2$

Find the product of the sum and difference of the two binomials.

1. $(9k+2y)(9k-2y)$

2. $(13s+8r)(13s-8r)$

3. $(7b-10c)(7b+10c)$

4. $(4m+9)(4m-9)$

5. $\left(\frac{1}{3}x-\frac{2}{5}y\right)\left(\frac{1}{3}x+\frac{2}{5}y\right)$

Find the product of a binomial and a trinomial

1. $(a+b)(a^2-ab+b^2)$

2. $(2+y)(4-2y+y^2)$

3. $(x-3)(x^2+3x+9)$

4. $(5ab+3xy)(25a^2b^2+15abxy+9x^2y^2)$

5. $(3m-5n)(9m^2-15mn+25n^2)$

Find the cube of a binomial

1. $(2a+3b)^3$

2. $(5y-5)^3$

3. $(x-3)^3$

4. $(4b+6)^3$

5. $(3m-5n)^3$