

Unit 1 Wkst 7
Multiplying Polynomials

Perform the indicated operation for each of the following.

A) $(x+5)(x-6)$

B) $(x+5)(x-5)$

C) $(x+7)(x+2)$

D) $(x+4)(x+4)$

E) $3(x+5)(x-2)$

F) $x(2x+5)(3x-1)$

G) $(4x-3)(3x+5)$

H) $(3x+7y)(2x-5y)$

I) $(x-2y)^2(x+2y)^2$

J) $(x^{2n}-1)(x^n-7)$

K) $(3x^n-5)(2x^n+3)$

Special Product Rules

Complete each of the following special product formulas.

$$(a+b)^2 =$$

$$(a-b)^2 =$$

$$(a+b)^3 =$$

$$(a-b)^3 =$$

$$(a+b)(a-b) =$$

Use the special product rules to perform the indicated operation

A) $(2x+5)^2$

B) $(3x-2)^2$

C) $(2a-3b)^2$

D) $(4x-3y)^2$

E) $(5x+6)(5x-6)$

F) $2(3x+2)(3x-2)$

G) $(x+2)^3$

H) $(x^n+6)^2$

I) $(4x-3)^2$

J) $[(x+y)+5][(x+y)-5]$

K) $(2x^n-3)^3$

L) $(5x+3)^2$

M) $(x^{2n}-y)^2$

N) $(3x+7)^2$

O) $(4x-5y)^2$