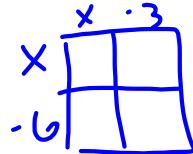


**DO NOW**

Simplify the expressions



1)  $(x + 8)(x - 4)$

$$\begin{array}{c}
 \begin{array}{|c|c|c|c|} \hline
 & x & +8 \\ \hline
 x & x^2 & 8x \\ \hline
 -4 & -4x & -32 \\ \hline
 \end{array} \\
 x^2 + 8x - 4x - 32 \\
 \boxed{x^2 + 4x - 32}
 \end{array}$$

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

$$\begin{array}{c}
 \begin{array}{|c|c|c|c|} \hline
 & x & -6 \\ \hline
 x & x^2 & -6x \\ \hline
 -3 & -3x & 18 \\ \hline
 \end{array} \\
 x^2 - 3x - 6x + 18 \\
 \boxed{x^2 - 9x + 18}
 \end{array}$$

Sep 19-8:32 AM

**Homework Answers - Period 1**

1)  $x^2 + 5x + 6$

2)  $x^2 + 3x - 28$

3)  $x^2 - 8x + 15$

4)  $x^2 + 12x + 48$

5)  $x^2 - 7x - 18$

6)  $x^2 - 18x + 81$

Mar 21-10:18 AM

**DO NOW**

Simplify the expressions

1)  $2xy(3x^2y - 4x + 2y)$

$$6x^3y^2 - 8x^2y + 4xy^2$$

2)  $(2a^2)^3$

$$2^3 a^6$$
  
$$8a^6$$

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**Homework Answers - Period 4**

1)  $x^3 + 2x$

2)  $x^3 - 2x^2 + 3$

3)  $x + 1$

4)  $-4z^5 + 3$

5)  $21b^3 - 14b^2 + 35b$

6)  $2x + 1$

Mar 21-8:05 AM

### Multiplying Binomials

Use the "Box Method" or  
distributive property TWICE

EX:  $(3x + 4)(x - 3)$

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

$$3x^2 - 9x + 4x - 12$$

$$3x^2 - 5x - 12$$

Sep 19-1:06 PM

### Multiplying Binomials

EX:  $(2x + 4)(x + 3)$

$$2x^2 + 10x + 12$$

Sep 19-1:06 PM

## Multiplying Binomials

Binomial Square EX:  $(2x + 4)^2$

$$(2x+4)(2x+4)$$

$$4x^2 + 16x + 16$$

	$2x + 4$
$4x$	$8x$
$8x$	$16$

Sep 19-1:06 PM

## Multiplying Binomials

EX:  $(3x + 4)(3x - 4)$

$$9x^2 - 16$$

$3x$	$+ 4$
$9x^2$	$12x$
$-12x$	$-16$

Sep 19-1:06 PM

## Multiplying Binomials

EX:  $(x - 5y)(2x - 3y)$

$$\boxed{2x^2 - 13xy + 15y^2}$$

$x$	$-5y$
$2+$	$-10xy$
$3y$	$15y^2$
$-3xy$	

Sep 19-1:06 PM

## Multiplying Binomials

EX:  $(3x + 5)(-2x - 2)$

$$\boxed{-6x^2 - 16x - 10}$$

$-2x$	$-2$
$3+$	$-6x^2$
$5$	$-6x$
	$10x$
	$-10$

Sep 19-1:06 PM

Multiplying Binomials

1.  $(2x + 2)(-x - 7)$

$$-2x^2 - 16x - 14$$

5.  $(-2x + 6)(x^2 - 2)$

2.  $(x^2 - 5)(-4x^2 - 3)$

$$-4x^4 + 17x^2 + 15$$

6.  $(4x - 12)(6x^2 - 4x)$

3.  $(6x^2 + 2x)(x + 3)$

$$6x^3 + 8x^2 + 6x$$

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

4.  $(5x - 6)(3x - 3)$

$$15x^2 - 33x + 18$$

Mar 23-1:06 PM