



Expand each problem using the box method.

1)  $(-8x^2+8x)(9x^2-9x-6)$

2)  $(9x^2+5x-2)(9x^2+6x)$

3)  $(6x^2+8x-7)(9x^2-8x)$

4)  $(6x^2-5x)(-8x^2+3x+2)$

5)  $(-4x^2+4x)(5x^2+6x)$

6)  $(-4x^2+3x)(7x^2-3x)$

7)  $(2x^2+8x+8)(3x^2-3x)$

8)  $(7x^2+9x-4)(-3x^2+5x-9)$

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

10)  $(4x^2-9x)(-3x^2-2x)$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Expand each problem using the box method.

1)  $(-8x^2+8x)(9x^2-9x-6)$

	$-8x^2$	$8x$	
$9x^2$	$-72x^4$	$72x^3$	
$-9x$	$72x^3$	$-72x^2$	
$-6$	$48x^2$	$-48x$	

2)  $(9x^2+5x-2)(9x^2+6x)$

	$9x^2$	$5x$	$-2$
$9x^2$	$81x^4$	$45x^3$	$-18x^2$
$6x$	$54x^3$	$30x^2$	$-12x$

3)  $(6x^2+8x-7)(9x^2-8x)$

	$6x^2$	$8x$	$-7$
$9x^2$	$54x^4$	$72x^3$	$-63x^2$
$-8x$	$-48x^3$	$-64x^2$	$56x$

4)  $(6x^2-5x)(-8x^2+3x+2)$

	$6x^2$	$-5x$
$-8x^2$	$-48x^4$	$40x^3$
$3x$	$18x^3$	$-15x^2$
$2$	$12x^2$	$-10x$

5)  $(-4x^2+4x)(5x^2+6x)$

	$-4x^2$	$4x$
$5x^2$	$-20x^4$	$20x^3$
$6x$	$-24x^3$	$24x^2$

6)  $(-4x^2+3x)(7x^2-3x)$

	$-4x^2$	$3x$
$7x^2$	$-28x^4$	$21x^3$
$-3x$	$12x^3$	$-9x^2$

7)  $(2x^2+8x+8)(3x^2-3x)$

	$2x^2$	$8x$	$8$
$3x^2$	$6x^4$	$24x^3$	$24x^2$
$-3x$	$-6x^3$	$-24x^2$	$-24x$

8)  $(7x^2+9x-4)(-3x^2+5x-9)$

	$7x^2$	$9x$	$-4$
$-3x^2$	$-21x^4$	$-27x^3$	$12x^2$
$5x$	$35x^3$	$45x^2$	$-20x$
$-9$	$-63x^2$	$-81x$	$36$

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

	$3x^2$	$-9x$
$-7x^2$	$-21x^4$	$63x^3$
$3x$	$9x^3$	$-27x^2$
$-2$	$-6x^2$	$18x$

10)  $(4x^2-9x)(-3x^2-2x)$

	$4x^2$	$-9x$
$-3x^2$	$-12x^4$	$27x^3$
$-2x$	$-8x^3$	$18x^2$

Answers

1.  $-72x^4+144x^3-24x^2-48x$

2.  $81x^4+99x^3+12x^2-12x$

3.  $54x^4+24x^3-127x^2+56x$

4.  $-48x^4+58x^3-3x^2-10x$

5.  $-20x^4-4x^3+24x^2$

6.  $-28x^4+33x^3-9x^2$

7.  $6x^4+18x^3-24x$

8.  $-21x^4+8x^3-6x^2-101x+36$

9.  $-21x^4+72x^3-33x^2+18x$

10.  $-12x^4+19x^3+18x^2$