



Expand each problem using the box method.

1)  $(8x^2+8x+3)(-7x^2+2x)$

2)  $(2x^2+4x)(-7x^2+9x)$

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

4)  $(-1x^2+-3x+5)(-8x^2+-4x)$

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

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

7)  $(-9x^2+6x+5)(1x^2+-3x)$

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

9)  $(3x^2+-1x+-9)(-9x^2+-3x)$

10)  $(-8x^2+6x)(-2x^2+-5x)$

**Answers**

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

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

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

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

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

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

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

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

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

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



Expand each problem using the box method.

1)  $(8x^2+8x+3)(-7x^2+2x)$

	$8x^2$	$8x$	$-3$
$-7x^2$	$-56x^4$	$-56x^3$	$21x^2$
$2x$	$16x^3$	$16x^2$	$-6x$

2)  $(2x^2+4x)(-7x^2+9x)$

	$2x^2$	$4x$
$-7x^2$	$-14x^4$	$-28x^3$
$9x$	$18x^3$	$36x^2$

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

	$-2x^2$	$6x$	$3$
$-2x^2$	$4x^4$	$-12x^3$	$-6x^2$
$7x$	$-14x^3$	$42x^2$	$21x$

4)  $(-1x^2+-3x+5)(-8x^2+-4x)$

	$-1x^2$	$-3x$	$5$
$-8x^2$	$8x^4$	$24x^3$	$-40x^2$
$-4x$	$4x^3$	$12x^2$	$-20x$

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

	$-9x^2$	$-3x$
$8x^2$	$-72x^4$	$-24x^3$
$-4x$	$36x^3$	$12x^2$
$-7$	$63x^2$	$21x$

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

	$3x^2$	$6x$
$4x^2$	$12x^4$	$24x^3$
$-6x$	$-18x^3$	$-36x^2$
$8$	$24x^2$	$48x$

7)  $(-9x^2+6x+5)(1x^2+-3x)$

	$-9x^2$	$6x$	$5$
$1x^2$	$-9x^4$	$6x^3$	$5x^2$
$-3x$	$27x^3$	$-18x^2$	$-15x$

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

	$-8x^2$	$-6x$	$2$
$7x^2$	$-56x^4$	$-42x^3$	$14x^2$
$9x$	$-72x^3$	$-54x^2$	$18x$

9)  $(3x^2+-1x+-9)(-9x^2+-3x)$

	$3x^2$	$-1x$	$-9$
$-9x^2$	$-27x^4$	$9x^3$	$81x^2$
$-3x$	$-9x^3$	$3x^2$	$27x$

10)  $(-8x^2+6x)(-2x^2+-5x)$

	$-8x^2$	$6x$
$-2x^2$	$16x^4$	$-12x^3$
$-5x$	$40x^3$	$-30x^2$

**Answers**

1.  $-56x^4-40x^3+37x^2-6x$

2.  $-14x^4-10x^3+36x^2$

3.  $4x^4-26x^3+36x^2+21x$

4.  $8x^4+28x^3-28x^2-20x$

5.  $-72x^4+12x^3+75x^2+21x$

6.  $12x^4+6x^3-12x^2+48x$

7.  $-9x^4+33x^3-13x^2-15x$

8.  $-56x^4-114x^3-40x^2+18x$

9.  $-27x^4+0x^3+84x^2+27x$

10.  $16x^4+28x^3-30x^2$