



Expand each problem using the box method.

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

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

3)  $(-5x^2+-8x+-9)(-6x^2+-2x)$

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

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

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

7)  $(2x^2+5x+7)(-5x^2+2x)$

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

9)  $(6x^2+1x+1)(-5x^2+-8x+6)$

10)  $(-9x^2+3x)(-3x^2+-4x+-1)$

**Answers**

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

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

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

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

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

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

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

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

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

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



Expand each problem using the box method.

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

	$7x^2$	$6x$	
$3x^2$	$21x^4$	$18x^3$	
$-7x$	$-49x^3$	$-42x^2$	
$6$	$42x^2$	$36x$	

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

	$-7x^2$	$-6x$	$-7$
$-4x^2$	$28x^4$	$24x^3$	$28x^2$
$3x$	$-21x^3$	$-18x^2$	$-21x$

3)  $(-5x^2+-8x+-9)(-6x^2+-2x)$

	$-5x^2$	$-8x$	$-9$
$-6x^2$	$30x^4$	$48x^3$	$54x^2$
$-2x$	$10x^3$	$16x^2$	$18x$

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

	$-8x^2$	$4x$
$9x^2$	$-72x^4$	$36x^3$
$7x$	$-56x^3$	$28x^2$
$-3$	$24x^2$	$-12x$

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

	$-6x^2$	$5x$	$-4$
$-8x^2$	$48x^4$	$-40x^3$	$32x^2$
$-5x$	$30x^3$	$-25x^2$	$20x$

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

	$-8x^2$	$8x$	$-2$
$2x^2$	$-16x^4$	$16x^3$	$-4x^2$
$-2x$	$16x^3$	$-16x^2$	$4x$
$-2$	$16x^2$	$-16x$	$4$

7)  $(2x^2+5x+7)(-5x^2+2x)$

	$2x^2$	$5x$	$7$
$-5x^2$	$-10x^4$	$-25x^3$	$-35x^2$
$2x$	$4x^3$	$10x^2$	$14x$

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

	$-9x^2$	$1x$	$8$
$-6x^2$	$54x^4$	$-6x^3$	$-48x^2$
$-8x$	$72x^3$	$-8x^2$	$-64x$

9)  $(6x^2+1x+1)(-5x^2+-8x+6)$

	$6x^2$	$1x$	$1$
$-5x^2$	$-30x^4$	$-5x^3$	$-5x^2$
$-8x$	$-48x^3$	$-8x^2$	$-8x$
$6$	$36x^2$	$6x$	$6$

10)  $(-9x^2+3x)(-3x^2+-4x+-1)$

	$-9x^2$	$3x$
$-3x^2$	$27x^4$	$-9x^3$
$-4x$	$36x^3$	$-12x^2$
$-1$	$9x^2$	$-3x$

Answers

1.  $21x^4-31x^3+36x$

2.  $28x^4+3x^3+10x^2-21x$

3.  $30x^4+58x^3+70x^2+18x$

4.  $-72x^4-20x^3+52x^2-12x$

5.  $48x^4-10x^3+7x^2+20x$

6.  $-16x^4+32x^3-4x^2-12x+4$

7.  $-10x^4-21x^3-25x^2+14x$

8.  $54x^4+66x^3-56x^2-64x$

9.  $-30x^4-53x^3+23x^2-2x+6$

10.  $27x^4+27x^3-3x^2-3x$