



Expand each problem using the box method.

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

2)  $(2x^2+5x+2)(-2x^2-7x+8)$

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

4)  $(9x^2+6x)(-6x^2+6x+4)$

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

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

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

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

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

10)  $(-8x^2+9x)(-6x^2-2x+6)$

Answers

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

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

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

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

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

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

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

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

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

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



Expand each problem using the box method.

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

	$-9x^2$	$5x$
$2x^2$	$-18x^4$	$10x^3$
$7x$	$-63x^3$	$35x^2$
$5$	$-45x^2$	$25x$

2)  $(2x^2+5x+2)(-2x^2-7x+8)$

	$2x^2$	$5x$	$2$
$-2x^2$	$-4x^4$	$-10x^3$	$-4x^2$
$-7x$	$-14x^3$	$-35x^2$	$-14x$
$8$	$16x^2$	$40x$	$16$

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

	$-7x^2$	$-5x$
$-2x^2$	$14x^4$	$10x^3$
$-6x$	$42x^3$	$30x^2$
$3$	$-21x^2$	$-15x$

4)  $(9x^2+6x)(-6x^2+6x+4)$

	$9x^2$	$6x$
$-6x^2$	$-54x^4$	$-36x^3$
$6x$	$54x^3$	$36x^2$
$4$	$36x^2$	$24x$

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

	$3x^2$	$-5x$
$-2x^2$	$-6x^4$	$10x^3$
$3x$	$9x^3$	$-15x^2$

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

	$4x^2$	$5x$	$5$
$-2x^2$	$-8x^4$	$-10x^3$	$-10x^2$
$-4x$	$-16x^3$	$-20x^2$	$-20x$
$-6$	$-24x^2$	$-30x$	$-30$

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

	$-6x^2$	$8x$
$-8x^2$	$48x^4$	$-64x^3$
$7x$	$-42x^3$	$56x^2$
$-6$	$36x^2$	$-48x$

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

	$-8x^2$	$2x$	$-3$
$-2x^2$	$16x^4$	$-4x^3$	$6x^2$
$-7x$	$56x^3$	$-14x^2$	$21x$
$5$	$-40x^2$	$10x$	$-15$

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

	$-5x^2$	$-3x$
$-7x^2$	$35x^4$	$21x^3$
$5x$	$-25x^3$	$-15x^2$

10)  $(-8x^2+9x)(-6x^2-2x+6)$

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

Answers

1.  $-18x^4-53x^3-10x^2+25x$

2.  $-4x^4-24x^3-23x^2+26x+16$

3.  $14x^4+52x^3+9x^2-15x$

4.  $-54x^4+18x^3+72x^2+24x$

5.  $-6x^4+19x^3-15x^2$

6.  $-8x^4-26x^3-54x^2-50x-30$

7.  $48x^4-106x^3+92x^2-48x$

8.  $16x^4+52x^3-48x^2+31x-15$

9.  $35x^4-4x^3-15x^2$

10.  $48x^4-38x^3-66x^2+54x$