



Expand each problem using the box method.

1) $(3x^2+6x+1)(-4x^2+1x)$

2) $(5x^2+1x)(-2x^2+-6x+-4)$

3) $(-9x^2+-6x)(-4x^2+6x+5)$

4) $(1x^2+6x+-2)(4x^2+9x+-7)$

5) $(-4x^2+7x)(-1x^2+4x+5)$

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

7) $(-4x^2+-9x+-1)(-5x^2+-7x)$

8) $(-9x^2+2x+8)(-4x^2+1x)$

9) $(-6x^2+4x+1)(8x^2+2x)$

10) $(-2x^2+5x)(-8x^2+-3x+3)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(3x^2+6x+1)(-4x^2+1x)$

	$3x^2$	$6x$	1
$-4x^2$	$-12x^4$	$-24x^3$	$-4x^2$
$1x$	$3x^3$	$6x^2$	$1x$

2) $(5x^2+1x)(-2x^2+-6x+-4)$

	$5x^2$	$1x$
$-2x^2$	$-10x^4$	$-2x^3$
$-6x$	$-30x^3$	$-6x^2$
-4	$-20x^2$	$-4x$

3) $(-9x^2+-6x)(-4x^2+6x+5)$

	$-9x^2$	$-6x$
$-4x^2$	$36x^4$	$24x^3$
$6x$	$-54x^3$	$-36x^2$
5	$-45x^2$	$-30x$

4) $(1x^2+6x+-2)(4x^2+9x+-7)$

	$1x^2$	$6x$	-2
$4x^2$	$4x^4$	$24x^3$	$-8x^2$
$9x$	$9x^3$	$54x^2$	$-18x$
-7	$-7x^2$	$-42x$	14

5) $(-4x^2+7x)(-1x^2+4x+5)$

	$-4x^2$	$7x$
$-1x^2$	$4x^4$	$-7x^3$
$4x$	$-16x^3$	$28x^2$
5	$-20x^2$	$35x$

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

	$-9x^2$	$-1x$
$-2x^2$	$18x^4$	$2x^3$
$3x$	$-27x^3$	$-3x^2$

7) $(-4x^2+-9x+-1)(-5x^2+-7x)$

	$-4x^2$	$-9x$	-1
$-5x^2$	$20x^4$	$45x^3$	$5x^2$
$-7x$	$28x^3$	$63x^2$	$7x$

8) $(-9x^2+2x+8)(-4x^2+1x)$

	$-9x^2$	$2x$	8
$-4x^2$	$36x^4$	$-8x^3$	$-32x^2$
$1x$	$-9x^3$	$2x^2$	$8x$

9) $(-6x^2+4x+1)(8x^2+2x)$

	$-6x^2$	$4x$	1
$8x^2$	$-48x^4$	$32x^3$	$8x^2$
$2x$	$-12x^3$	$8x^2$	$2x$

10) $(-2x^2+5x)(-8x^2+-3x+3)$

	$-2x^2$	$5x$
$-8x^2$	$16x^4$	$-40x^3$
$-3x$	$6x^3$	$-15x^2$
3	$-6x^2$	$15x$

Answers

1. $-12x^4-21x^3+2x^2x$

2. $-10x^4-32x^3-26x^2-4x$

3. $36x^4-30x^3-81x^2-30x$

4. $4x^4+33x^3+39x^2-60x+14$

5. $4x^4-23x^3+8x^2+35x$

6. $18x^4-25x^3-3x^2$

7. $20x^4+73x^3+68x^2+7x$

8. $36x^4-17x^3-30x^2+8x$

9. $-48x^4+20x^3+16x^2+2x$

10. $16x^4-34x^3-21x^2+15x$