



Expand each problem using the box method.

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

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

3) $(-4x^2+-1x+-6)(-6x^2+-4x+-7)$

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

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

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

7) $(-5x^2+-6x+-7)(-4x^2+6x+5)$

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

	$4x^2$	$8x$	
$-2x^2$	$-8x^4$	$-16x^3$	
$8x$	$32x^3$	$64x^2$	
-1	$-4x^2$	$-8x$	

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

	$7x^2$	$-7x$	
$1x^2$	$7x^4$	$-7x^3$	
$4x$	$28x^3$	$-28x^2$	
1	$7x^2$	$-7x$	

3) $(-4x^2+-1x+-6)(-6x^2+-4x+-7)$

	$-4x^2$	$-1x$	-6	
$-6x^2$	$24x^4$	$6x^3$	$36x^2$	
$-4x$	$16x^3$	$4x^2$	$24x$	
-7	$28x^2$	$7x$	42	

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

	$9x^2$	$2x$	
$-7x^2$	$-63x^4$	$-14x^3$	
$1x$	$9x^3$	$2x^2$	

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

	$-1x^2$	$-6x$	2	
$2x^2$	$-2x^4$	$-12x^3$	$4x^2$	
$5x$	$-5x^3$	$-30x^2$	$10x$	

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

	$6x^2$	$-6x$	-7	
$1x^2$	$6x^4$	$-6x^3$	$-7x^2$	
$1x$	$6x^3$	$-6x^2$	$-7x$	
-3	$-18x^2$	$18x$	21	

7) $(-5x^2+-6x+-7)(-4x^2+6x+5)$

	$-5x^2$	$-6x$	-7	
$-4x^2$	$20x^4$	$24x^3$	$28x^2$	
$6x$	$-30x^3$	$-36x^2$	$-42x$	
5	$-25x^2$	$-30x$	-35	

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

	$-3x^2$	$-7x$	8	
$-8x^2$	$24x^4$	$56x^3$	$-64x^2$	
$8x$	$-24x^3$	$-56x^2$	$64x$	
4	$-12x^2$	$-28x$	32	

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

	$-6x^2$	$-9x$	
$9x^2$	$-54x^4$	$-81x^3$	
$-4x$	$24x^3$	$36x^2$	

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

	$-9x^2$	$3x$	
$-2x^2$	$18x^4$	$-6x^3$	
$3x$	$-27x^3$	$9x^2$	

Answers

1. $-8x^4+16x^3+60x^2-8x$

2. $7x^4+21x^3-21x^2-7x$

3. $24x^4+22x^3+68x^2+31x+42$

4. $-63x^4-5x^3+2x^2$

5. $-2x^4-17x^3-26x^2+10x$

6. $6x^4+0x^3-31x^2+11x+21$

7. $20x^4-6x^3-33x^2-72x-35$

8. $24x^4+32x^3-132x^2+36x+32$

9. $-54x^4-57x^3+36x^2$

10. $18x^4-33x^3+9x^2$