



Expand each problem using the box method.

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

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

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

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

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

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

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

8) $(-6x^2 - 8x)(3x^2 - 7x + 2)$

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

10) $(-7x^2 - 9x)(-8x^2 + 9x - 4)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

	$7x^2$	$-9x$	
$6x^2$	$42x^4$	$-54x^3$	
$-3x$	$-21x^3$	$27x^2$	
3	$21x^2$	$-27x$	

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

	$3x^2$	$-2x$	-6
$-4x^2$	$-12x^4$	$8x^3$	$24x^2$
$-8x$	$-24x^3$	$16x^2$	$48x$
-2	$-6x^2$	$4x$	12

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

	$-8x^2$	$-2x$
$6x^2$	$-48x^4$	$-12x^3$
$3x$	$-24x^3$	$-6x^2$
-8	$64x^2$	$16x$

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

	$-8x^2$	$-2x$
$7x^2$	$-56x^4$	$-14x^3$
$3x$	$-24x^3$	$-6x^2$
-3	$24x^2$	$6x$

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

	$9x^2$	$-4x$	-5
$-7x^2$	$-63x^4$	$28x^3$	$35x^2$
$2x$	$18x^3$	$-8x^2$	$-10x$
3	$27x^2$	$-12x$	-15

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

	$2x^2$	$-9x$	-4
$-3x^2$	$-6x^4$	$27x^3$	$12x^2$
$-6x$	$-12x^3$	$54x^2$	$24x$
4	$8x^2$	$-36x$	-16

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

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

8) $(-6x^2-8x)(3x^2-7x+2)$

	$-6x^2$	$-8x$
$3x^2$	$-18x^4$	$-24x^3$
$-7x$	$42x^3$	$56x^2$
2	$-12x^2$	$-16x$

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

	$7x^2$	$-9x$
$9x^2$	$63x^4$	$-81x^3$
$-4x$	$-28x^3$	$36x^2$

10) $(-7x^2-9x)(-8x^2+9x-4)$

	$-7x^2$	$-9x$
$-8x^2$	$56x^4$	$72x^3$
$9x$	$-63x^3$	$-81x^2$
-4	$28x^2$	$36x$

Answers

- $42x^4-75x^3+48x^2-27x$
- $-12x^4-16x^3+34x^2+52x+12$
- $-48x^4-36x^3+58x^2+16x$
- $-56x^4-38x^3+18x^2+6x$
- $-63x^4+46x^3+54x^2-22x-15$
- $-6x^4+15x^3+74x^2-12x-16$
- $16x^4+20x^3+4x^2$
- $-18x^4+18x^3+44x^2-16x$
- $63x^4-109x^3+36x^2$
- $56x^4+9x^3-53x^2+36x$