



Expand each problem using the box method.

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

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

3) $(7x^2+5x)(-9x^2-8x)$

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

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

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

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

8) $(-3x^2-9x+5)(-4x^2+6x)$

9) $(-5x^2-8x)(-9x^2-2x-8)$

10) $(-2x^2+8x)(-7x^2-6x-7)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

	$3x^2$	$7x$	
$-3x^2$	$-9x^4$	$-21x^3$	
$3x$	$9x^3$	$21x^2$	
-4	$-12x^2$	$-28x$	

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

	$-8x^2$	$-9x$	-9
$6x^2$	$-48x^4$	$-54x^3$	$-54x^2$
$4x$	$-32x^3$	$-36x^2$	$-36x$

3) $(7x^2+5x)(-9x^2-8x)$

	$7x^2$	$5x$
$-9x^2$	$-63x^4$	$-45x^3$
$-8x$	$-56x^3$	$-40x^2$

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

	$8x^2$	$9x$	-2
$-3x^2$	$-24x^4$	$-27x^3$	$6x^2$
$-7x$	$-56x^3$	$-63x^2$	$14x$

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

	$8x^2$	$-3x$	8
$2x^2$	$16x^4$	$-6x^3$	$16x^2$
$-8x$	$-64x^3$	$24x^2$	$-64x$
3	$24x^2$	$-9x$	24

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

	$3x^2$	$-7x$	-4
$2x^2$	$6x^4$	$-14x^3$	$-8x^2$
$4x$	$12x^3$	$-28x^2$	$-16x$

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

	$-7x^2$	$-3x$
$2x^2$	$-14x^4$	$-6x^3$
$7x$	$-49x^3$	$-21x^2$
-7	$49x^2$	$21x$

8) $(-3x^2-9x+5)(-4x^2+6x)$

	$-3x^2$	$-9x$	5
$-4x^2$	$12x^4$	$36x^3$	$-20x^2$
$6x$	$-18x^3$	$-54x^2$	$30x$

9) $(-5x^2-8x)(-9x^2-2x-8)$

	$-5x^2$	$-8x$
$-9x^2$	$45x^4$	$72x^3$
$-2x$	$10x^3$	$16x^2$
-8	$40x^2$	$64x$

10) $(-2x^2+8x)(-7x^2-6x-7)$

	$-2x^2$	$8x$
$-7x^2$	$14x^4$	$-56x^3$
$-6x$	$12x^3$	$-48x^2$
-7	$14x^2$	$-56x$

Answers

1. $-9x^4-12x^3+9x^2-28x$

2. $-48x^4-86x^3-90x^2-36x$

3. $-63x^4-101x^3-40x^2$

4. $-24x^4-83x^3-57x^2+14x$

5. $16x^4-70x^3+64x^2-73x+24$

6. $6x^4-2x^3-36x^2-16x$

7. $-14x^4-55x^3+28x^2+21x$

8. $12x^4+18x^3-74x^2+30x$

9. $45x^4+82x^3+56x^2+64x$

10. $14x^4-44x^3-34x^2-56x$