



Expand each problem using the box method.

1) $(-7x^2+1x+1)(6x^2+8x+9)$

2) $(7x^2+-4x+-5)(-8x^2+3x)$

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

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

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

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

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

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

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

10) $(3x^2+-7x)(-3x^2+3x+2)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(-7x^2+1x+1)(6x^2+8x+9)$

	$-7x^2$	$1x$	1
$6x^2$	$-42x^4$	$6x^3$	$6x^2$
$8x$	$-56x^3$	$8x^2$	$8x$
9	$-63x^2$	$9x$	9

2) $(7x^2+-4x+-5)(-8x^2+3x)$

	$7x^2$	$-4x$	-5
$-8x^2$	$-56x^4$	$32x^3$	$40x^2$
$3x$	$21x^3$	$-12x^2$	$-15x$

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

	$8x^2$	$4x$	4
$-9x^2$	$-72x^4$	$-36x^3$	$-36x^2$
$-8x$	$-64x^3$	$-32x^2$	$-32x$

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

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

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

	$-6x^2$	$8x$	4
$5x^2$	$-30x^4$	$40x^3$	$20x^2$
$-6x$	$36x^3$	$-48x^2$	$-24x$
-3	$18x^2$	$-24x$	-12

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

	$-3x^2$	$3x$	-3
$-8x^2$	$24x^4$	$-24x^3$	$24x^2$
$-2x$	$6x^3$	$-6x^2$	$6x$
9	$-27x^2$	$27x$	-27

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

	$-8x^2$	$-5x$
$-7x^2$	$56x^4$	$35x^3$
$-9x$	$72x^3$	$45x^2$
2	$-16x^2$	$-10x$

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

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

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

	$4x^2$	$5x$	-7
$-5x^2$	$-20x^4$	$-25x^3$	$35x^2$
$7x$	$28x^3$	$35x^2$	$-49x$
7	$28x^2$	$35x$	-49

10) $(3x^2+-7x)(-3x^2+3x+2)$

	$3x^2$	$-7x$
$-3x^2$	$-9x^4$	$21x^3$
$3x$	$9x^3$	$-21x^2$
2	$6x^2$	$-14x$

Answers

1. $-42x^4-50x^3-49x^2+17x+9$

2. $-56x^4+53x^3+28x^2-15x$

3. $-72x^4-100x^3-68x^2-32x$

4. $-54x^4+24x^3-4x^2+8x$

5. $-30x^4+76x^3-10x^2-48x-12$

6. $24x^4-18x^3-9x^2+33x-27$

7. $56x^4+107x^3+29x^2-10x$

8. $-21x^4+20x^3+25x^2$

9. $-20x^4+3x^3+98x^2-14x-49$

10. $-9x^4+30x^3-15x^2-14x$