



Expand each problem using the box method.

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

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

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

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

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

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

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

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

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

10) $(2x^2 + 6x - 7)(-3x^2 + 4x)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

	$6x^2$	$-6x$	
$-7x^2$	$-42x^4$	$42x^3$	
$-6x$	$-36x^3$	$36x^2$	
3	$18x^2$	$-18x$	

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

	$2x^2$	$-7x$	-6
$-4x^2$	$-8x^4$	$28x^3$	$24x^2$
$-9x$	$-18x^3$	$63x^2$	$54x$

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

	$6x^2$	$-3x$
$6x^2$	$36x^4$	$-18x^3$
$3x$	$18x^3$	$-9x^2$
6	$36x^2$	$-18x$

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

	$7x^2$	$9x$
$-6x^2$	$-42x^4$	$-54x^3$
$-6x$	$-42x^3$	$-54x^2$
-7	$-49x^2$	$-63x$

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

	$-3x^2$	$-8x$
$-9x^2$	$27x^4$	$72x^3$
$4x$	$-12x^3$	$-32x^2$
5	$-15x^2$	$-40x$

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

	$4x^2$	$-8x$	-9
$9x^2$	$36x^4$	$-72x^3$	$-81x^2$
$5x$	$20x^3$	$-40x^2$	$-45x$

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

	$9x^2$	$-4x$
$-2x^2$	$-18x^4$	$8x^3$
$-6x$	$-54x^3$	$24x^2$
6	$54x^2$	$-24x$

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

	$3x^2$	$-7x$	-8
$7x^2$	$21x^4$	$-49x^3$	$-56x^2$
$-3x$	$-9x^3$	$21x^2$	$24x$

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

	$9x^2$	$9x$	2
$-8x^2$	$-72x^4$	$-72x^3$	$-16x^2$
$2x$	$18x^3$	$18x^2$	$4x$
3	$27x^2$	$27x$	6

10) $(2x^2+6x-7)(-3x^2+4x)$

	$2x^2$	$6x$	-7
$-3x^2$	$-6x^4$	$-18x^3$	$21x^2$
$4x$	$8x^3$	$24x^2$	$-28x$

Answers

1. $-42x^4+6x^3+54x^2-18x$

2. $-8x^4+10x^3+87x^2+54x$

3. $36x^4+27x^2-18x$

4. $-42x^4-96x^3-103x^2-63x$

5. $27x^4+60x^3-47x^2-40x$

6. $36x^4-52x^3-121x^2-45x$

7. $-18x^4-46x^3+78x^2-24x$

8. $21x^4-58x^3-35x^2+24x$

9. $-72x^4-54x^3+29x^2+31x+6$

10. $-6x^4-10x^3+45x^2-28x$