



Expand each problem using the box method.

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

2) $(-5x^2+5x+7)(-6x^2+4x+-8)$

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

4) $(7x^2+-5x+9)(5x^2+-1x+-7)$

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

6) $(2x^2+-3x)(-5x^2+1x)$

7) $(1x^2+8x)(8x^2+-4x)$

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

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

10) $(7x^2+-7x+1)(-6x^2+-9x)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

	$9x^2$	$7x$	
$3x^2$	$27x^4$	$21x^3$	
$-2x$	$-18x^3$	$-14x^2$	

2) $(-5x^2+5x+7)(-6x^2+4x+-8)$

	$-5x^2$	$5x$	7
$-6x^2$	$30x^4$	$-30x^3$	$-42x^2$
$4x$	$-20x^3$	$20x^2$	$28x$
-8	$40x^2$	$-40x$	-56

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

	$1x^2$	$-6x$	-6
$7x^2$	$7x^4$	$-42x^3$	$-42x^2$
$-2x$	$-2x^3$	$12x^2$	$12x$

4) $(7x^2+-5x+9)(5x^2+-1x+-7)$

	$7x^2$	$-5x$	9
$5x^2$	$35x^4$	$-25x^3$	$45x^2$
$-1x$	$-7x^3$	$5x^2$	$-9x$
-7	$-49x^2$	$35x$	-63

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

	$-9x^2$	$-9x$	-8
$6x^2$	$-54x^4$	$-54x^3$	$-48x^2$
$8x$	$-72x^3$	$-72x^2$	$-64x$
9	$-81x^2$	$-81x$	-72

6) $(2x^2+-3x)(-5x^2+1x)$

	$2x^2$	$-3x$
$-5x^2$	$-10x^4$	$15x^3$
$1x$	$2x^3$	$-3x^2$

7) $(1x^2+8x)(8x^2+-4x)$

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

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

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

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

	$-4x^2$	$2x$	1
$-2x^2$	$8x^4$	$-4x^3$	$-2x^2$
$-9x$	$36x^3$	$-18x^2$	$-9x$

10) $(7x^2+-7x+1)(-6x^2+-9x)$

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

Answers

1. $27x^4+3x^3-14x^2$

2. $30x^4-50x^3+18x^2-12x-56$

3. $7x^4-44x^3-30x^2+12x$

4. $35x^4-32x^3x^2+26x-63$

5. $-54x^4-126x^3-201x^2-145x-72$

6. $-10x^4+17x^3-3x^2$

7. $8x^4+60x^3-32x^2$

8. $8x^4-8x^3-48x^2$

9. $8x^4+32x^3-20x^2-9x$

10. $-42x^4-21x^3+57x^2-9x$