



Expand each problem using the box method.

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

2) $(2x+4)^2$

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

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

5) $(-5x^2-7)^2$

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

7) $(1x^2-2x)^2$

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

9) $(9x+2)^2$

10) $(6x-9)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

	4x	-9
4x	$16x^2$	$-36x$
-9	$-36x$	81

2) $(2x+4)^2$

	2x	4
2x	$4x^2$	$8x$
4	$8x$	16

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

	8x	9
8x	$64x^2$	$72x$
9	$72x$	81

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

	$4x^2$	-8
$4x^2$	$16x^4$	$-32x^2$
-8	$-32x^2$	64

5) $(-5x^2-7)^2$

	$-5x^2$	-7
$-5x^2$	$25x^4$	$35x^2$
-7	$35x^2$	49

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

	$-4x^2$	3x
$-4x^2$	$16x^4$	$-12x^3$
3x	$-12x^3$	$9x^2$

7) $(1x^2-2x)^2$

	$1x^2$	-2x
$1x^2$	$1x^4$	$-2x^3$
-2x	$-2x^3$	$4x^2$

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

	-4x	-1
-4x	$16x^2$	$4x$
-1	$4x$	1

9) $(9x+2)^2$

	9x	2
9x	$81x^2$	$18x$
2	$18x$	4

10) $(6x-9)^2$

	6x	-9
6x	$36x^2$	$-54x$
-9	$-54x$	81

Answers

1. $16x^2-72x+81$

2. $4x^2+16x+16$

3. $64x^2+144x+81$

4. $16x^4-64x^2+64$

5. $25x^4+70x^2+49$

6. $16x^4-24x^3+9x^2$

7. $x^4-4x^3+4x^2$

8. $16x^2+8x+$

9. $81x^2+36x+4$

10. $36x^2-108x+81$