



Expand each problem using the box method.

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

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

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

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

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

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

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

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

9) $(1x+8)^2$

10) $(8x^2+9x)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

	$-2x^2$	6
$-2x^2$	$4x^4$	$-12x^2$
6	$-12x^2$	36

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

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

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

	$8x^2$	$8x$
$8x^2$	$64x^4$	$64x^3$
$8x$	$64x^3$	$64x^2$

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

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

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

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

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

	$9x^2$	-1
$9x^2$	$81x^4$	$-9x^2$
-1	$-9x^2$	1

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

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

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

	$2x^2$	$4x$
$2x^2$	$4x^4$	$8x^3$
$4x$	$8x^3$	$16x^2$

9) $(1x+8)^2$

	$1x$	8
$1x$	$1x^2$	$8x$
8	$8x$	64

10) $(8x^2+9x)^2$

	$8x^2$	$9x$
$8x^2$	$64x^4$	$72x^3$
$9x$	$72x^3$	$81x^2$

Answers

1. $4x^4 - 24x^2 + 36$

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

3. $64x^4 + 128x^3 + 64x^2$

4. $x^4 + 2x^2 + 1$

5. $64x^2 + 32x + 4$

6. $81x^4 - 18x^2 + 1$

7. $64x^4 + 16x^2 + 1$

8. $4x^4 + 16x^3 + 16x^2$

9. $x^2 + 16x + 64$

10. $64x^4 + 144x^3 + 81x^2$