Expanding Square Polynomials Using the Box Method Name:

Expand each problem using the box method.

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

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

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

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

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

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

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

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

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

10) $(8x^2+-6)^2$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

Expanding Square Polynomials Using the Box Method Name: **Answer Key**

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

	$-7x^2$	$3x$
$-7x^2$	$49x^4$	$-21x^3$
$3x$	$-21x^3$	$9x^2$

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

	$-4x$	6
$-4x$	$16x^2$	$-24x$
6	$-24x$	36

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

	$-6x^2$	$8x$
$-6x^2$	$36x^4$	$-48x^3$
$8x$	$-48x^3$	$64x^2$

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

	$-5x^2$	$-4x$
$-5x^2$	$25x^4$	$20x^3$
$-4x$	$20x^3$	$16x^2$

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

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

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

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

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

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

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

	$6x$	-4
$6x$	$36x^2$	$-24x$
-4	$-24x$	16

10) $(8x^2+-6)^2$

	$8x^2$	-6
$8x^2$	$64x^4$	$-48x^2$
-6	$-48x^2$	36

Answers

1. $4x^4+24x^2+36$
2. $49x^4-42x^3+9x^2$
3. $16x^2-48x+36$
4. $36x^4-96x^3+64x^2$
5. $25x^4+40x^3+16x^2$
6. $36x^2-36x+9$
7. $49x^4+70x^2+25$
8. $16x^4-24x^2+9$
9. $36x^2-48x+16$
10. $64x^4-96x^2+36$

1-10	90	80	70	60	50	40	30	20	10	0