Expanding Square Polynomials Using the Box Method

Name:

Expand each problem using the box method.

1) $(-6x^2+-4)^2$

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

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

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

5) $(6x+7)^2$

6) $(-1x^2+8x)^2$

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

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

9) $(5x^2+3)^2$

10) $(7x^2+3x)^2$

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

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

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

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

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

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

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

	$-2x$	5
$-2x$	$4x^2$	$-10x$
5	$-10x$	25

5) $(6x+7)^2$

	$6x$	7
$6x$	$36x^2$	$42x$
7	$42x$	49

6) $(-1x^2+8x)^2$

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

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

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

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

	$-5x^2$	-2
$-5x^2$	$25x^4$	$10x^2$
-2	$10x^2$	4

9) $(5x^2+3)^2$

	$5x^2$	3
$5x^2$	$25x^4$	$15x^2$
3	$15x^2$	9

10) $(7x^2+3x)^2$

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

Answers

1. $36x^4+48x^2+16$
2. x^4+8x^2+16
3. $36x^2-24x+4$
4. $4x^2-20x+25$
5. $36x^2+84x+49$
6. $x^4-16x^3+64x^2$
7. $49x^2-42x+9$
8. $25x^4+20x^2+4$
9. $25x^4+30x^2+9$
10. $49x^4+42x^3+9x^2$

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