



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. \_\_\_\_\_



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.  $64x^4-96x^2+36$