



Expand each problem using the box method.

1)  $(3x^2+8)^2$

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

3)  $(6x^2+9x)^2$

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

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

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

7)  $(-8x^2+4x)^2$

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

9)  $(7x^2+1x)^2$

10)  $(8x+-3)^2$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Expand each problem using the box method.

1)  $(3x^2 + -8)^2$

	$3x^2$	$-8$
$3x^2$	$9x^4$	$-24x^2$
$-8$	$-24x^2$	$64$

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

	$6x$	$6$
$6x$	$36x^2$	$36x$
$6$	$36x$	$36$

3)  $(6x^2+9x)^2$

	$6x^2$	$9x$
$6x^2$	$36x^4$	$54x^3$
$9x$	$54x^3$	$81x^2$

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

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

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

	$-7x^2$	$-6$
$-7x^2$	$49x^4$	$42x^2$
$-6$	$42x^2$	$36$

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

	$5x$	$5$
$5x$	$25x^2$	$25x$
$5$	$25x$	$25$

7)  $(-8x^2+4x)^2$

	$-8x^2$	$4x$
$-8x^2$	$64x^4$	$-32x^3$
$4x$	$-32x^3$	$16x^2$

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

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

9)  $(7x^2+1x)^2$

	$7x^2$	$1x$
$7x^2$	$49x^4$	$7x^3$
$1x$	$7x^3$	$1x^2$

10)  $(8x+-3)^2$

	$8x$	$-3$
$8x$	$64x^2$	$-24x$
$-3$	$-24x$	$9$

Answers

1.  $9x^4 - 48x^2 + 64$

2.  $36x^2 + 72x + 36$

3.  $36x^4 + 108x^3 + 81x^2$

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

5.  $49x^4 + 84x^2 + 36$

6.  $25x^2 + 50x + 25$

7.  $64x^4 - 64x^3 + 16x^2$

8.  $4x^2 - 36x + 81$

9.  $49x^4 + 14x^3x^2$

10.  $64x^2 - 48x + 9$