



Expand each problem using the box method.

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

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

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

4)  $(3x+1)^2$

5)  $(-4x^2 + -6)^2$

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

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

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

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

10)  $(4x^2 + -4)^2$

Answers

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

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

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

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

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

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

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

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

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

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



Expand each problem using the box method.

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

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

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

	$2x$	$7$
$2x$	$4x^2$	$14x$
$7$	$14x$	$49$

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

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

4)  $(3x+1)^2$

	$3x$	$1$
$3x$	$9x^2$	$3x$
$1$	$3x$	$1$

5)  $(-4x^2 + -6)^2$

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

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

	$7x^2$	$7$
$7x^2$	$49x^4$	$49x^2$
$7$	$49x^2$	$49$

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

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

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

	$8x$	$5$
$8x$	$64x^2$	$40x$
$5$	$40x$	$25$

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

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

10)  $(4x^2 + -4)^2$

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

Answers

1.  $x^4 - 4x^3 + 4x^2$

2.  $4x^2 + 28x + 49$

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

4.  $9x^2 + 6x + 1$

5.  $16x^4 + 48x^2 + 36$

6.  $49x^4 + 98x^2 + 49$

7.  $16x^4 + 32x^3 + 16x^2$

8.  $64x^2 + 80x + 25$

9.  $4x^4 - 24x^2 + 36$

10.  $16x^4 - 32x^2 + 16$