



Expand each problem using the box method.

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

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

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

4)  $(3x^2 + -7x)^2$

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

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

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

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

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

10)  $(-3x^2 + -9x)^2$

Answers

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

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

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

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

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

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

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

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

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

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



Expand each problem using the box method.

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

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

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

	$1x^2$	$9$
$1x^2$	$1x^4$	$9x^2$
$9$	$9x^2$	$81$

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

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

4)  $(3x^2 + -7x)^2$

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

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

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

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

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

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

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

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

	$8x$	$-8$
$8x$	$64x^2$	$-64x$
$-8$	$-64x$	$64$

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

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

10)  $(-3x^2 + -9x)^2$

	$-3x^2$	$-9x$
$-3x^2$	$9x^4$	$27x^3$
$-9x$	$27x^3$	$81x^2$

Answers

1.  $4x^4 - 32x^2 + 64$

2.  $x^4 + 18x^2 + 81$

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

4.  $9x^4 - 42x^3 + 49x^2$

5.  $9x^4 - 18x^3 + 9x^2$

6.  $4x^4 - 32x^3 + 64x^2$

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

8.  $64x^2 - 128x + 64$

9.  $9x^4 + 30x^2 + 25$

10.  $9x^4 + 54x^3 + 81x^2$