



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