



Expand each problem using the box method.

1) $(-9x+6)^2$

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

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

4) $(-1x^2+9x)^2$

5) $(4x^2+9)^2$

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

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

8) $(7x^2+5)^2$

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

10) $(-7x+5)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(-9x + -6)^2$

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

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

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

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

	$-7x^2$	$2x$
$-7x^2$	$49x^4$	$-14x^3$
$2x$	$-14x^3$	$4x^2$

4) $(-1x^2 + 9x)^2$

	$-1x^2$	$9x$
$-1x^2$	$1x^4$	$-9x^3$
$9x$	$-9x^3$	$81x^2$

5) $(4x^2 + 9)^2$

	$4x^2$	9
$4x^2$	$16x^4$	$36x^2$
9	$36x^2$	81

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

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

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

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

8) $(7x^2 + 5)^2$

	$7x^2$	5
$7x^2$	$49x^4$	$35x^2$
5	$35x^2$	25

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

	$1x^2$	$-9x$
$1x^2$	$1x^4$	$-9x^3$
$-9x$	$-9x^3$	$81x^2$

10) $(-7x + 5)^2$

	$-7x$	5
$-7x$	$49x^2$	$-35x$
5	$-35x$	25

Answers

1. $81x^2 + 108x + 36$

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

3. $49x^4 - 28x^3 + 4x^2$

4. $x^4 - 18x^3 + 81x^2$

5. $16x^4 + 72x^2 + 81$

6. $36x^4 + 48x^2 + 16$

7. $9x^4 - 18x^2 + 9$

8. $49x^4 + 70x^2 + 25$

9. $x^4 - 18x^3 + 81x^2$

10. $49x^2 - 70x + 25$