



Expand each problem using the box method.

1) $(3x^2 + -7x)^2$

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

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

4) $(9x^2 + 7x)^2$

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

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

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

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

9) $(-5x^2 + 6)^2$

10) $(-3x^2 + -1)^2$

Answers

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____



Expand each problem using the box method.

1) $(3x^2 + -7x)^2$

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

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

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

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

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

4) $(9x^2 + 7x)^2$

	$9x^2$	$7x$
$9x^2$	$81x^4$	$63x^3$
$7x$	$63x^3$	$49x^2$

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

	$-5x$	-9
$-5x$	$25x^2$	$45x$
-9	$45x$	81

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

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

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

	$-5x^2$	$2x$
$-5x^2$	$25x^4$	$-10x^3$
$2x$	$-10x^3$	$4x^2$

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

	$-6x^2$	$-8x$
$-6x^2$	$36x^4$	$48x^3$
$-8x$	$48x^3$	$64x^2$

9) $(-5x^2 + 6)^2$

	$-5x^2$	6
$-5x^2$	$25x^4$	$-30x^2$
6	$-30x^2$	36

10) $(-3x^2 + -1)^2$

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

Answers

1. $9x^4 - 42x^3 + 49x^2$

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

3. $36x^4 + 24x^2 + 4$

4. $81x^4 + 126x^3 + 49x^2$

5. $25x^2 + 90x + 81$

6. $4x^2 + 8x + 4$

7. $25x^4 - 20x^3 + 4x^2$

8. $36x^4 + 96x^3 + 64x^2$

9. $25x^4 - 60x^2 + 36$

10. $9x^4 + 6x^2 + 1$