



Expand each problem using the box method.

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

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

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

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

5) $(4x^2+8x)^2$

6) $(-7x^2-4)^2$

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

8) $(-4x+2)^2$

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

10) $(-4x^2-8)^2$

Answers

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



Expand each problem using the box method.

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

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

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

	-3x	-4
-3x	$9x^2$	$12x$
-4	$12x$	16

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

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

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

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

5) $(4x^2+8x)^2$

	$4x^2$	$8x$
$4x^2$	$16x^4$	$32x^3$
$8x$	$32x^3$	$64x^2$

6) $(-7x^2-4)^2$

	$-7x^2$	-4
$-7x^2$	$49x^4$	$28x^2$
-4	$28x^2$	16

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

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

8) $(-4x+2)^2$

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

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

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

10) $(-4x^2-8)^2$

	$-4x^2$	-8
$-4x^2$	$16x^4$	$32x^2$
-8	$32x^2$	64

Answers

- $9x^2+18x+9$
- $9x^2+24x+16$
- $25x^2+30x+9$
- $25x^4-20x^2+4$
- $16x^4+64x^3+64x^2$
- $49x^4+56x^2+16$
- $16x^4-16x^2+4$
- $16x^2-16x+4$
- $81x^4-162x^2+81$
- $16x^4+64x^2+64$