



Expand each problem using the box method.

1) $(3x+9)^2$

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

3) $(-8x^2-7x)^2$

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

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

6) $(5x+1)^2$

7) $(8x-6)^2$

8) $(-3x-6)^2$

9) $(-7x^2-7)^2$

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

Answers

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



Expand each problem using the box method.

1) $(3x+9)^2$

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

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

	4x	-5
4x	$16x^2$	$-20x$
-5	$-20x$	25

3) $(-8x^2-7x)^2$

	$-8x^2$	$-7x$
$-8x^2$	$64x^4$	$56x^3$
$-7x$	$56x^3$	$49x^2$

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

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

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

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

6) $(5x+1)^2$

	5x	1
5x	$25x^2$	$5x$
1	$5x$	1

7) $(8x-6)^2$

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

8) $(-3x-6)^2$

	$-3x$	-6
$-3x$	$9x^2$	$18x$
-6	$18x$	36

9) $(-7x^2-7)^2$

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

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

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

Answers

1. $9x^2+54x+81$

2. $16x^2-40x+25$

3. $64x^4+112x^3+49x^2$

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

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

6. $25x^2+10x+$

7. $64x^2-96x+36$

8. $9x^2+36x+36$

9. $49x^4+98x^2+49$

10. $4x^2+8x+4$