



Expand each problem using the box method.

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

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

3) $(-4x+-6)^2$

4) $(-8x^2+9x)^2$

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

6) $(4x^2+-5x)^2$

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

8) $(-9x^2+9x)^2$

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

10) $(-3x+8)^2$

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

	-6x²	-5
-6x²	$36x^4$	$30x^2$
-5	$30x^2$	25

3) $(-4x+-6)^2$

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

4) $(-8x^2+9x)^2$

	-8x²	9x
-8x²	$64x^4$	$-72x^3$
9x	$-72x^3$	$81x^2$

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

	7x²	5
7x²	$49x^4$	$35x^2$
5	$35x^2$	25

6) $(4x^2+-5x)^2$

	4x²	-5x
4x²	$16x^4$	$-20x^3$
-5x	$-20x^3$	$25x^2$

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

	-7x²	-2x
-7x²	$49x^4$	$14x^3$
-2x	$14x^3$	$4x^2$

8) $(-9x^2+9x)^2$

	-9x²	9x
-9x²	$81x^4$	$-81x^3$
9x	$-81x^3$	$81x^2$

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

	-1x	-4
-1x	$1x^2$	$4x$
-4	$4x$	16

10) $(-3x+8)^2$

	-3x	8
-3x	$9x^2$	$-24x$
8	$-24x$	64

Answers

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

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

3. $16x^2+48x+36$

4. $64x^4-144x^3+81x^2$

5. $49x^4+70x^2+25$

6. $16x^4-40x^3+25x^2$

7. $49x^4+28x^3+4x^2$

8. $81x^4-162x^3+81x^2$

9. $x^2+8x+16$

10. $9x^2-48x+64$