



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

	$-1x$	4
$-1x$	x^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. $9x^2-48x+64$