



Expand each problem using the box method.

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

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

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

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

5) $(-4x+7)^2$

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

7) $(-3x+6)^2$

8) $(9x+3)^2$

9) $(-3x+7)^2$

10) $(-5x+4)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

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

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

	9x	1
9x	$81x^2$	$9x$
1	$9x$	1

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

	7x	-1
7x	$49x^2$	$-7x$
-1	$-7x$	1

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

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

5) $(-4x+7)^2$

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

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

	$4x^2$	$-6x$
$4x^2$	$16x^4$	$-24x^3$
$-6x$	$-24x^3$	$36x^2$

7) $(-3x+6)^2$

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

8) $(9x+3)^2$

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

9) $(-3x+7)^2$

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

10) $(-5x+4)^2$

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

Answers

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

2. $81x^2+18x+1$

3. $49x^2-14x+1$

4. $16x^2-56x+49$

5. $16x^2+56x+49$

6. $16x^4-48x^3+36x^2$

7. $9x^2+36x+36$

8. $81x^2+54x+9$

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

10. $25x^2+40x+16$