



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)  $(2x+4)^2$

	<b>2x</b>	<b>-4</b>
<b>2x</b>	$4x^2$	$-8x$
<b>-4</b>	$-8x$	$16$

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

	<b>9x</b>	<b>1</b>
<b>9x</b>	$81x^2$	$9x$
<b>1</b>	$9x$	$1$

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

	<b>7x</b>	<b>-1</b>
<b>7x</b>	$49x^2$	$-7x$
<b>-1</b>	$-7x$	$1$

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

	<b>-4x</b>	<b>7</b>
<b>-4x</b>	$16x^2$	$-28x$
<b>7</b>	$-28x$	$49$

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

	<b>-4x</b>	<b>-7</b>
<b>-4x</b>	$16x^2$	$28x$
<b>-7</b>	$28x$	$49$

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

	<b>4x<sup>2</sup></b>	<b>-6x</b>
<b>4x<sup>2</sup></b>	$16x^4$	$-24x^3$
<b>-6x</b>	$-24x^3$	$36x^2$

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

	<b>-3x</b>	<b>-6</b>
<b>-3x</b>	$9x^2$	$18x$
<b>-6</b>	$18x$	$36$

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

	<b>9x</b>	<b>3</b>
<b>9x</b>	$81x^2$	$27x$
<b>3</b>	$27x$	$9$

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

	<b>-3x</b>	<b>-7</b>
<b>-3x</b>	$9x^2$	$21x$
<b>-7</b>	$21x$	$49$

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

	<b>-5x</b>	<b>-4</b>
<b>-5x</b>	$25x^2$	$20x$
<b>-4</b>	$20x$	$16$

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