



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)  $(3x+9)^2$

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

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

	<b>-6x<sup>2</sup></b>	<b>-5</b>
<b>-6x<sup>2</sup></b>	$36x^4$	$30x^2$
<b>-5</b>	$30x^2$	$25$

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

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

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

	<b>-8x<sup>2</sup></b>	<b>9x</b>
<b>-8x<sup>2</sup></b>	$64x^4$	$-72x^3$
<b>9x</b>	$-72x^3$	$81x^2$

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

	<b>7x<sup>2</sup></b>	<b>5</b>
<b>7x<sup>2</sup></b>	$49x^4$	$35x^2$
<b>5</b>	$35x^2$	$25$

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

	<b>4x<sup>2</sup></b>	<b>-5x</b>
<b>4x<sup>2</sup></b>	$16x^4$	$-20x^3$
<b>-5x</b>	$-20x^3$	$25x^2$

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

	<b>-7x<sup>2</sup></b>	<b>-2x</b>
<b>-7x<sup>2</sup></b>	$49x^4$	$14x^3$
<b>-2x</b>	$14x^3$	$4x^2$

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

	<b>-9x<sup>2</sup></b>	<b>9x</b>
<b>-9x<sup>2</sup></b>	$81x^4$	$-81x^3$
<b>9x</b>	$-81x^3$	$81x^2$

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

	<b>-1x</b>	<b>-4</b>
<b>-1x</b>	$1x^2$	$4x$
<b>-4</b>	$4x$	$16$

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

	<b>-3x</b>	<b>8</b>
<b>-3x</b>	$9x^2$	$-24x$
<b>8</b>	$-24x$	$64$

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