



Expand each problem using the box method.

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

2)  $(-9x^2+5x)^2$

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

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

5)  $(8x^2+-2x)^2$

6)  $(-2x^2+9)^2$

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

8)  $(-5x^2+1)^2$

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

10)  $(-4x^2+-9)^2$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Expand each problem using the box method.

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

	<b><math>-3x^2</math></b>	<b>1</b>
<b><math>-3x^2</math></b>	$9x^4$	$-3x^2$
<b>1</b>	$-3x^2$	1

2)  $(-9x^2+5x)^2$

	<b><math>-9x^2</math></b>	<b>5x</b>
<b><math>-9x^2</math></b>	$81x^4$	$-45x^3$
<b>5x</b>	$-45x^3$	$25x^2$

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

	<b>7x</b>	<b>-9</b>
<b>7x</b>	$49x^2$	$-63x$
<b>-9</b>	$-63x$	81

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

	<b><math>-6x^2</math></b>	<b>-2</b>
<b><math>-6x^2</math></b>	$36x^4$	$12x^2$
<b>-2</b>	$12x^2$	4

5)  $(8x^2+-2x)^2$

	<b><math>8x^2</math></b>	<b>-2x</b>
<b><math>8x^2</math></b>	$64x^4$	$-16x^3$
<b>-2x</b>	$-16x^3$	$4x^2$

6)  $(-2x^2+9)^2$

	<b><math>-2x^2</math></b>	<b>9</b>
<b><math>-2x^2</math></b>	$4x^4$	$-18x^2$
<b>9</b>	$-18x^2$	81

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

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

8)  $(-5x^2+1)^2$

	<b><math>-5x^2</math></b>	<b>1</b>
<b><math>-5x^2</math></b>	$25x^4$	$-5x^2$
<b>1</b>	$-5x^2$	1

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

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

10)  $(-4x^2+-9)^2$

	<b><math>-4x^2</math></b>	<b>-9</b>
<b><math>-4x^2</math></b>	$16x^4$	$36x^2$
<b>-9</b>	$36x^2$	81

Answers

1.  $9x^4-6x^2+1$

2.  $81x^4-90x^3+25x^2$

3.  $49x^2-126x+81$

4.  $36x^4+24x^2+4$

5.  $64x^4-32x^3+4x^2$

6.  $4x^4-36x^2+81$

7.  $x^4-4x^2+4$

8.  $25x^4-10x^2+1$

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

10.  $16x^4+72x^2+81$