



Expand each problem using the box method.

1)  $(4x^2 - 5x)^2$

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

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

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

5)  $(3x^2 + 7)^2$

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

7)  $(-8x^2 + 8x)^2$

8)  $(-7x^2 + 6)^2$

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

10)  $(2x - 6)^2$

Answers

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_

Expand each problem using the box method.

1)  $(4x^2-5x)^2$

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

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

	$-2x^2$	$3$
$-2x^2$	$4x^4$	$-6x^2$
$3$	$-6x^2$	$9$

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

	$-2x^2$	$-8x$
$-2x^2$	$4x^4$	$16x^3$
$-8x$	$16x^3$	$64x^2$

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

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

5)  $(3x^2+7)^2$

	$3x^2$	$7$
$3x^2$	$9x^4$	$21x^2$
$7$	$21x^2$	$49$

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

	$-6x^2$	$3x$
$-6x^2$	$36x^4$	$-18x^3$
$3x$	$-18x^3$	$9x^2$

7)  $(-8x^2+8x)^2$

	$-8x^2$	$8x$
$-8x^2$	$64x^4$	$-64x^3$
$8x$	$-64x^3$	$64x^2$

8)  $(-7x^2+6)^2$

	$-7x^2$	$6$
$-7x^2$	$49x^4$	$-42x^2$
$6$	$-42x^2$	$36$

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

	$-2x$	$-2$
$-2x$	$4x^2$	$4x$
$-2$	$4x$	$4$

10)  $(2x-6)^2$

	$2x$	$-6$
$2x$	$4x^2$	$-12x$
$-6$	$-12x$	$36$

Answers

1.  $16x^4-40x^3+25x^2$
2.  $4x^4-12x^2+9$
3.  $4x^4+32x^3+64x^2$
4.  $4x^4+16x^2+16$
5.  $9x^4+42x^2+49$
6.  $36x^4-36x^3+9x^2$
7.  $64x^4-128x^3+64x^2$
8.  $49x^4-84x^2+36$
9.  $4x^2+8x+4$
10.  $4x^2-24x+36$