



Expand each problem using the box method.

1) $(3x^2 + -8)^2$

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

3) $(6x^2 + 9x)^2$

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

5) $(-7x^2 + -6)^2$

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

7) $(-8x^2 + 4x)^2$

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

9) $(7x^2 + 1x)^2$

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(3x^2 + -8)^2$

	$3x^2$	-8
$3x^2$	$9x^4$	$-24x^2$
-8	$-24x^2$	64

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

	$6x$	6
$6x$	$36x^2$	$36x$
6	$36x$	36

3) $(6x^2+9x)^2$

	$6x^2$	$9x$
$6x^2$	$36x^4$	$54x^3$
$9x$	$54x^3$	$81x^2$

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

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

5) $(-7x^2+-6)^2$

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

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

	$5x$	5
$5x$	$25x^2$	$25x$
5	$25x$	25

7) $(-8x^2+4x)^2$

	$-8x^2$	$4x$
$-8x^2$	$64x^4$	$-32x^3$
$4x$	$-32x^3$	$16x^2$

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

	$2x$	-9
$2x$	$4x^2$	$-18x$
-9	$-18x$	81

9) $(7x^2+1x)^2$

	$7x^2$	$1x$
$7x^2$	$49x^4$	$7x^3$
$1x$	$7x^3$	$1x^2$

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

	$8x$	-3
$8x$	$64x^2$	$-24x$
-3	$-24x$	9

Answers

1. $9x^4 - 48x^2 + 64$

2. $36x^2 + 72x + 36$

3. $36x^4 + 108x^3 + 81x^2$

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

5. $49x^4 + 84x^2 + 36$

6. $25x^2 + 50x + 25$

7. $64x^4 - 64x^3 + 16x^2$

8. $4x^2 - 36x + 81$

9. $49x^4 + 14x^3x^2$

10. $64x^2 - 48x + 9$