



Expand each problem using the box method.

1) $(7x-5)^2$

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

3) $(9x^2-5)^2$

4) $(9x^2+6)^2$

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

6) $(5x+8)^2$

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

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Expand each problem using the box method.

1) $(7x-5)^2$

	$7x$	-5
$7x$	$49x^2$	$-35x$
-5	$-35x$	25

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

	$5x^2$	$-9x$
$5x^2$	$25x^4$	$-45x^3$
$-9x$	$-45x^3$	$81x^2$

3) $(9x^2-5)^2$

	$9x^2$	-5
$9x^2$	$81x^4$	$-45x^2$
-5	$-45x^2$	25

4) $(9x^2+6)^2$

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

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

	$-4x^2$	$6x$
$-4x^2$	$16x^4$	$-24x^3$
$6x$	$-24x^3$	$36x^2$

6) $(5x+8)^2$

	$5x$	8
$5x$	$25x^2$	$40x$
8	$40x$	64

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

	$2x^2$	-7
$2x^2$	$4x^4$	$-14x^2$
-7	$-14x^2$	49

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

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

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

	$7x^2$	-2
$7x^2$	$49x^4$	$-14x^2$
-2	$-14x^2$	4

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

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

Answers

- $49x^2-70x+25$
- $25x^4-90x^3+81x^2$
- $81x^4-90x^2+25$
- $81x^4+108x^2+36$
- $16x^4-48x^3+36x^2$
- $25x^2+80x+64$
- $4x^4-28x^2+49$
- $64x^4-48x^3+9x^2$
- $49x^4-28x^2+4$
- $36x^4-24x^2+4$