



Expand each problem using the box method.

1) $(8x^2+9x)^2$

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

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

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

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

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

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

8) $(-3x-9)^2$

9) $(-6x^2+5)^2$

10) $(-6x+7)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(8x^2+9x)^2$

	$8x^2$	$9x$
$8x^2$	$64x^4$	$72x^3$
$9x$	$72x^3$	$81x^2$

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

	$5x^2$	$5x$
$5x^2$	$25x^4$	$25x^3$
$5x$	$25x^3$	$25x^2$

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

	$8x^2$	8
$8x^2$	$64x^4$	$64x^2$
8	$64x^2$	64

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

	$9x^2$	$-8x$
$9x^2$	$81x^4$	$-72x^3$
$-8x$	$-72x^3$	$64x^2$

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

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

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

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

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

	$5x^2$	7
$5x^2$	$25x^4$	$35x^2$
7	$35x^2$	49

8) $(-3x-9)^2$

	$-3x$	-9
$-3x$	$9x^2$	$27x$
-9	$27x$	81

9) $(-6x^2+5)^2$

	$-6x^2$	5
$-6x^2$	$36x^4$	$-30x^2$
5	$-30x^2$	25

10) $(-6x+7)^2$

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

Answers

1. $64x^4+144x^3+81x^2$

2. $25x^4+50x^3+25x^2$

3. $64x^4+128x^2+64$

4. $81x^4-144x^3+64x^2$

5. $49x^4-42x^3+9x^2$

6. $4x^4-24x^2+36$

7. $25x^4+70x^2+49$

8. $9x^2+54x+81$

9. $36x^4-60x^2+25$

10. $36x^2-84x+49$



Expand each problem using the box method.

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

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

3) $(7x^2-4x)^2$

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

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

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

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

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

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

10) $(8x^2-9)^2$

Answers

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



Expand each problem using the box method.

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

	$2x^2$	-5
$2x^2$	$4x^4$	$-10x^2$
-5	$-10x^2$	25

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

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

3) $(7x^2-4x)^2$

	$7x^2$	$-4x$
$7x^2$	$49x^4$	$-28x^3$
$-4x$	$-28x^3$	$16x^2$

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

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

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

	$6x$	-8
$6x$	$36x^2$	$-48x$
-8	$-48x$	64

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

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

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

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

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

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

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

	$3x^2$	$3x$
$3x^2$	$9x^4$	$9x^3$
$3x$	$9x^3$	$9x^2$

10) $(8x^2-9)^2$

	$8x^2$	-9
$8x^2$	$64x^4$	$-72x^2$
-9	$-72x^2$	81

Answers

- $4x^4-20x^2+25$
- $9x^4-36x^3+36x^2$
- $49x^4-56x^3+16x^2$
- $36x^4+108x^3+81x^2$
- $36x^2-96x+64$
- $36x^2+48x+16$
- $16x^4-64x^3+64x^2$
- $9x^4-48x^2+64$
- $9x^4+18x^3+9x^2$
- $64x^4-144x^2+81$



Expand each problem using the box method.

1) $(9x+5)^2$

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

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

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

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

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

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

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

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

10) $(-6x^2-3)^2$

Answers

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



Expand each problem using the box method.

1) $(9x+5)^2$

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

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

	$-5x^2$	2x
$-5x^2$	$25x^4$	$-10x^3$
2x	$-10x^3$	$4x^2$

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

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

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

	9x	-9
9x	$81x^2$	$-81x$
-9	$-81x$	81

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

	$2x^2$	5
$2x^2$	$4x^4$	$10x^2$
5	$10x^2$	25

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

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

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

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

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

	$4x^2$	7x
$4x^2$	$16x^4$	$28x^3$
7x	$28x^3$	$49x^2$

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

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

10) $(-6x^2-3)^2$

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

Answers

1. $81x^2+90x+25$

2. $25x^4-20x^3+4x^2$

3. $4x^2-8x+4$

4. $81x^2-162x+81$

5. $4x^4+20x^2+25$

6. $9x^4+36x^3+36x^2$

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

8. $16x^4+56x^3+49x^2$

9. $4x^4-32x^2+64$

10. $36x^4+36x^2+9$



Expand each problem using the box method.

1) $(7x^2+4x)^2$

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

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

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

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

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

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

8) $(7x+3)^2$

9) $(-8x-3)^2$

10) $(2x^2+7x)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(7x^2+4x)^2$

	$7x^2$	$4x$
$7x^2$	$49x^4$	$28x^3$
$4x$	$28x^3$	$16x^2$

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

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

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

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

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

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

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

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

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

	$4x^2$	9
$4x^2$	$16x^4$	$36x^2$
9	$36x^2$	81

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

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

8) $(7x+3)^2$

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

9) $(-8x-3)^2$

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

10) $(2x^2+7x)^2$

	$2x^2$	$7x$
$2x^2$	$4x^4$	$14x^3$
$7x$	$14x^3$	$49x^2$

Answers

- $49x^4+56x^3+16x^2$
- $9x^4-18x^2+9$
- $64x^4+128x^3+64x^2$
- $16x^2-40x+25$
- $36x^2-72x+36$
- $16x^4+72x^2+81$
- $16x^4-32x^3+16x^2$
- $49x^2+42x+9$
- $64x^2+48x+9$
- $4x^4+28x^3+49x^2$



Expand each problem using the box method.

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

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

3) $(-6x^2-8x)^2$

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

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

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

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

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

9) $(4x^2-5x)^2$

10) $(2x^2-7x)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

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

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

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

3) $(-6x^2-8x)^2$

	$-6x^2$	$-8x$
$-6x^2$	$36x^4$	$48x^3$
$-8x$	$48x^3$	$64x^2$

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

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

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

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

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

	$7x^2$	$5x$
$7x^2$	$49x^4$	$35x^3$
$5x$	$35x^3$	$25x^2$

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

	$-6x$	5
$-6x$	$36x^2$	$-30x$
5	$-30x$	25

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

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

9) $(4x^2-5x)^2$

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

10) $(2x^2-7x)^2$

	$2x^2$	$-7x$
$2x^2$	$4x^4$	$-14x^3$
$-7x$	$-14x^3$	$49x^2$

Answers

1. $16x^4-40x^2+25$

2. $16x^2+64x+64$

3. $36x^4+96x^3+64x^2$

4. $49x^4+98x^2+49$

5. $25x^4-50x^3+25x^2$

6. $49x^4+70x^3+25x^2$

7. $36x^2-60x+25$

8. $4x^4+16x^2+16$

9. $16x^4-40x^3+25x^2$

10. $4x^4-28x^3+49x^2$



Expand each problem using the box method.

1) $(7x^2+3)^2$

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

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

4) $(6x-8)^2$

5) $(6x^2+9)^2$

6) $(-4x+7)^2$

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

8) $(7x^2+5)^2$

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

10) $(-9x-5)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(7x^2+3)^2$

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

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

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

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

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

4) $(6x-8)^2$

	$6x$	-8
$6x$	$36x^2$	$-48x$
-8	$-48x$	64

5) $(6x^2+9)^2$

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

6) $(-4x+7)^2$

	$-4x$	7
$-4x$	$16x^2$	$-28x$
7	$-28x$	49

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

	$8x$	-6
$8x$	$64x^2$	$-48x$
-6	$-48x$	36

8) $(7x^2+5)^2$

	$7x^2$	5
$7x^2$	$49x^4$	$35x^2$
5	$35x^2$	25

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

	$7x^2$	$2x$
$7x^2$	$49x^4$	$14x^3$
$2x$	$14x^3$	$4x^2$

10) $(-9x-5)^2$

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

Answers

1. $49x^4+42x^2+9$

2. $25x^2+80x+64$

3. $49x^4-42x^2+9$

4. $36x^2-96x+64$

5. $36x^4+108x^2+81$

6. $16x^2-56x+49$

7. $64x^2-96x+36$

8. $49x^4+70x^2+25$

9. $49x^4+28x^3+4x^2$

10. $81x^2+90x+25$



Expand each problem using the box method.

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

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

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

4) $(-9x+5)^2$

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

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

7) $(-4x-3)^2$

8) $(7x^2-9)^2$

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

10) $(-8x^2+6x)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

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

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

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

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

	$7x^2$	$-2x$
$7x^2$	$49x^4$	$-14x^3$
$-2x$	$-14x^3$	$4x^2$

4) $(-9x+5)^2$

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

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

	$-5x^2$	3x
$-5x^2$	$25x^4$	$-15x^3$
3x	$-15x^3$	$9x^2$

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

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

7) $(-4x-3)^2$

	$-4x$	-3
$-4x$	$16x^2$	$12x$
-3	$12x$	9

8) $(7x^2-9)^2$

	$7x^2$	-9
$7x^2$	$49x^4$	$-63x^2$
-9	$-63x^2$	81

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

	9x	-9
9x	$81x^2$	$-81x$
-9	$-81x$	81

10) $(-8x^2+6x)^2$

	$-8x^2$	6x
$-8x^2$	$64x^4$	$-48x^3$
6x	$-48x^3$	$36x^2$

Answers

1. $25x^2+70x+49$

2. $64x^2+80x+25$

3. $49x^4-28x^3+4x^2$

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

5. $25x^4-30x^3+9x^2$

6. $4x^4-16x^2+16$

7. $16x^2+24x+9$

8. $49x^4-126x^2+81$

9. $81x^2-162x+81$

10. $64x^4-96x^3+36x^2$



Expand each problem using the box method.

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

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

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

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

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

6) $(5x^2-9x)^2$

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

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

9) $(5x+6)^2$

10) $(7x^2-9x)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

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

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

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

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

	$-8x$	8
$-8x$	$64x^2$	$-64x$
8	$-64x$	64

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

	$6x$	-5
$6x$	$36x^2$	$-30x$
-5	$-30x$	25

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

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

6) $(5x^2-9x)^2$

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

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

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

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

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

9) $(5x+6)^2$

	$5x$	6
$5x$	$25x^2$	$30x$
6	$30x$	36

10) $(7x^2-9x)^2$

	$7x^2$	$-9x$
$7x^2$	$49x^4$	$-63x^3$
$-9x$	$-63x^3$	$81x^2$

Answers

1. $49x^4-98x^2+49$

2. $25x^4-40x^2+16$

3. $64x^2-128x+64$

4. $36x^2-60x+25$

5. $4x^2-36x+81$

6. $25x^4-90x^3+81x^2$

7. $36x^4+84x^2+49$

8. $4x^2+28x+49$

9. $25x^2+60x+36$

10. $49x^4-126x^3+81x^2$



Expand each problem using the box method.

1) $(-3x^2-6x)^2$

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

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

4) $(9x+5)^2$

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

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

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

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

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

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

Answers

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

Expand each problem using the box method.

1) $(-3x^2-6x)^2$

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

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

	$5x^2$	$-3x$
$5x^2$	$25x^4$	$-15x^3$
$-3x$	$-15x^3$	$9x^2$

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

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

4) $(9x+5)^2$

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

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

	$5x^2$	$-3x$
$5x^2$	$25x^4$	$-15x^3$
$-3x$	$-15x^3$	$9x^2$

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

	$-4x^2$	$3x$
$-4x^2$	$16x^4$	$-12x^3$
$3x$	$-12x^3$	$9x^2$

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

	$5x^2$	$-6x$
$5x^2$	$25x^4$	$-30x^3$
$-6x$	$-30x^3$	$36x^2$

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

	$7x^2$	-4
$7x^2$	$49x^4$	$-28x^2$
-4	$-28x^2$	16

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

	$3x^2$	$9x$
$3x^2$	$9x^4$	$27x^3$
$9x$	$27x^3$	$81x^2$

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

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

Answers

1. $9x^4+36x^3+36x^2$
2. $25x^4-30x^3+9x^2$
3. $36x^4+48x^2+16$
4. $81x^2+90x+25$
5. $25x^4-30x^3+9x^2$
6. $16x^4-24x^3+9x^2$
7. $25x^4-60x^3+36x^2$
8. $49x^4-56x^2+16$
9. $9x^4+54x^3+81x^2$
10. $9x^2-12x+4$



Expand each problem using the box method.

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

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

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

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

5) $(4x^2+8x)^2$

6) $(-7x^2-4)^2$

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

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

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

10) $(-4x^2-8)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

	3x	3
3x	$9x^2$	$9x$
3	$9x$	9

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

	-3x	-4
-3x	$9x^2$	$12x$
-4	$12x$	16

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

	5x	3
5x	$25x^2$	$15x$
3	$15x$	9

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

	5x²	-2
5x²	$25x^4$	$-10x^2$
-2	$-10x^2$	4

5) $(4x^2+8x)^2$

	4x²	8x
4x²	$16x^4$	$32x^3$
8x	$32x^3$	$64x^2$

6) $(-7x^2-4)^2$

	-7x²	-4
-7x²	$49x^4$	$28x^2$
-4	$28x^2$	16

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

	4x²	-2
4x²	$16x^4$	$-8x^2$
-2	$-8x^2$	4

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

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

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

	-9x²	9
-9x²	$81x^4$	$-81x^2$
9	$-81x^2$	81

10) $(-4x^2-8)^2$

	-4x²	-8
-4x²	$16x^4$	$32x^2$
-8	$32x^2$	64

Answers

- $9x^2+18x+9$
- $9x^2+24x+16$
- $25x^2+30x+9$
- $25x^4-20x^2+4$
- $16x^4+64x^3+64x^2$
- $49x^4+56x^2+16$
- $16x^4-16x^2+4$
- $16x^2-16x+4$
- $81x^4-162x^2+81$
- $16x^4+64x^2+64$