



Expand each problem using the box method.

1) $(-6x^2 + -4)^2$

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

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

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

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

6) $(-1x^2 + 8x)^2$

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

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

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

10) $(7x^2 + 3x)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(-6x^2 + -4)^2$

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

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

	$-1x^2$	-4
$-1x^2$	$1x^4$	$4x^2$
-4	$4x^2$	16

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

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

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

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

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

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

6) $(-1x^2 + 8x)^2$

	$-1x^2$	$8x$
$-1x^2$	$1x^4$	$-8x^3$
$8x$	$-8x^3$	$64x^2$

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

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

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

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

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

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

10) $(7x^2 + 3x)^2$

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

Answers

1. $36x^4 + 48x^2 + 16$

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

3. $36x^2 - 24x + 4$

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

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

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

7. $49x^2 - 42x + 9$

8. $25x^4 + 20x^2 + 4$

9. $25x^4 + 30x^2 + 9$

10. $49x^4 + 42x^3 + 9x^2$



Expand each problem using the box method.

Answers

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

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

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



Expand each problem using the box method.

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

	$-3x^2$	1
$-3x^2$	$9x^4$	$-3x^2$
1	$-3x^2$	1

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

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

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

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

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

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

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

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

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

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

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

	$1x^2$	-2
$1x^2$	$1x^4$	$-2x^2$
-2	$-2x^2$	4

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

	$-5x^2$	1
$-5x^2$	$25x^4$	$-5x^2$
1	$-5x^2$	1

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

	$-2x$	1
$-2x$	$4x^2$	$-2x$
1	$-2x$	1

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

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

Answers

- $9x^4-6x^2+1$
- $81x^4-90x^3+25x^2$
- $49x^2-126x+81$
- $36x^4+24x^2+4$
- $64x^4-32x^3+4x^2$
- $4x^4-36x^2+81$
- x^4-4x^2+4
- $25x^4-10x^2+1$
- $4x^2-4x+1$
- $16x^4+72x^2+81$



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

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



Expand each problem using the box method.

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

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

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

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

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

6) $(9x^2+-1)^2$

7) $(-8x^2+-1)^2$

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

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

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

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

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

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

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

	$-1x^2$	-1
$-1x^2$	$1x^4$	$1x^2$
-1	$1x^2$	1

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

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

6) $(9x^2+-1)^2$

	$9x^2$	-1
$9x^2$	$81x^4$	$-9x^2$
-1	$-9x^2$	1

7) $(-8x^2+-1)^2$

	$-8x^2$	-1
$-8x^2$	$64x^4$	$8x^2$
-1	$8x^2$	1

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

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

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

	$1x$	8
$1x$	$1x^2$	$8x$
8	$8x$	64

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

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

Answers

1. $4x^4-24x^2+36$

2. $36x^2-108x+81$

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

4. x^4+2x^2+1

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

6. $81x^4-18x^2+1$

7. $64x^4+16x^2+1$

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

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

10. $64x^4+144x^3+81x^2$



Expand each problem using the box method.

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

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

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

4) $(3x + 1)^2$

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

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

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

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

	$1x^2$	$-2x$
$1x^2$	$1x^4$	$-2x^3$
$-2x$	$-2x^3$	$4x^2$

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

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

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

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

4) $(3x+1)^2$

	$3x$	1
$3x$	$9x^2$	$3x$
1	$3x$	1

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

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

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

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

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

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

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

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

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

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

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

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

Answers

1. $x^4 - 4x^3 + 4x^2$
2. $4x^2 + 28x + 49$
3. $81x^4 - 108x^2 + 36$
4. $9x^2 + 6x + 1$
5. $16x^4 + 48x^2 + 36$
6. $49x^4 + 98x^2 + 49$
7. $16x^4 + 32x^3 + 16x^2$
8. $64x^2 + 80x + 25$
9. $4x^4 - 24x^2 + 36$
10. $16x^4 - 32x^2 + 16$



Expand each problem using the box method.

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

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

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

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

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

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

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

8) $(1x^2+7)^2$

9) $(-4x^2+7)^2$

10) $(7x+8)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8) $(1x^2+7)^2$

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

9) $(-4x^2+7)^2$

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

10) $(7x+8)^2$

	$7x$	-8
$7x$	$49x^2$	$-56x$
-8	$-56x$	64

Answers

1. $49x^4-28x^3+4x^2$
2. $25x^4+50x^2+25$
3. $64x^4-128x^3+64x^2$
4. $64x^4+144x^2+81$
5. $64x^2+96x+36$
6. $49x^2+28x+4$
7. $4x^2+16x+16$
8. x^4-14x^2+49
9. $16x^4-56x^2+49$
10. $49x^2-112x+64$



Expand each problem using the box method.

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

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

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

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

5) $(-4x+7)^2$

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

7) $(-3x+6)^2$

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

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

10) $(-5x+4)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

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

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

	9x	1
9x	$81x^2$	$9x$
1	$9x$	1

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

	7x	-1
7x	$49x^2$	$-7x$
-1	$-7x$	1

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

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

5) $(-4x+7)^2$

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

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

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

7) $(-3x+6)^2$

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

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

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

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

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

10) $(-5x+4)^2$

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

Answers

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

2. $81x^2+18x+1$

3. $49x^2-14x+1$

4. $16x^2-56x+49$

5. $16x^2+56x+49$

6. $16x^4-48x^3+36x^2$

7. $9x^2+36x+36$

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

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

10. $25x^2+40x+16$



Expand each problem using the box method.

1) $(2x^2+6)^2$

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

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

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

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

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

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

8) $(-4x^2+3)^2$

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(2x^2+6)^2$

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

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

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

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

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

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

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

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

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

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

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

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

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

8) $(-4x^2+3)^2$

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

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

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

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

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

Answers

1. $4x^4+24x^2+36$

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

3. $16x^2-48x+36$

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

5. $25x^4+40x^3+16x^2$

6. $36x^2-36x+9$

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

8. $16x^4-24x^2+9$

9. $36x^2-48x+16$

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



Expand each problem using the box method.

1) $(3x+9)^2$

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

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

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

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

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

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

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

9) $(-1x+4)^2$

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(3x+9)^2$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9) $(-1x+4)^2$

	$-1x$	4
$-1x$	x^2	$4x$
4	$4x$	16

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

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

Answers

1. $9x^2+54x+81$

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

3. $16x^2+48x+36$

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

5. $49x^4+70x^2+25$

6. $16x^4-40x^3+25x^2$

7. $49x^4+28x^3+4x^2$

8. $81x^4-162x^3+81x^2$

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

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



Expand each problem using the box method.

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

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

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

4) $(9x^2 + 7x)^2$

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

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

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

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

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

10) $(-3x^2 + -1)^2$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

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

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

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

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

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

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

4) $(9x^2 + 7x)^2$

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

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

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

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

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

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

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

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

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

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

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

10) $(-3x^2 + -1)^2$

	$-3x^2$	-1
$-3x^2$	$9x^4$	$3x^2$
-1	$3x^2$	1

Answers

1. $9x^4 - 42x^3 + 49x^2$
2. $16x^4 + 72x^2 + 81$
3. $36x^4 + 24x^2 + 4$
4. $81x^4 + 126x^3 + 49x^2$
5. $25x^2 + 90x + 81$
6. $4x^2 + 8x + 4$
7. $25x^4 - 20x^3 + 4x^2$
8. $36x^4 + 96x^3 + 64x^2$
9. $25x^4 - 60x^2 + 36$
10. $9x^4 + 6x^2 + 1$