



Expanda cada problema usando el método de caja.

1) $(-5x^2+9x+4)(-3x^2+7x+1)$

2) $(-9x^2+-2x+-7)(-9x^2+5x+8)$

3) $(-8x^2+7x+7)(-6x^2+7x)$

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

5) $(-3x^2+-1x+-1)(8x^2+-2x+3)$

6) $(3x^2+9x+-9)(-2x^2+-4x+9)$

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

8) $(-3x^2+9x+-5)(-5x^2+-7x+1)$

9) $(7x^2+-6x)(-9x^2+-2x)$

10) $(2x^2+-3x+-8)(-4x^2+5x)$

Respuestas

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expanda cada problema usando el método de caja.

1) $(-5x^2+9x+4)(-3x^2+7x+1)$

| | | | |
|---------|----------|----------|----------|
| | $-5x^2$ | $9x$ | 4 |
| $-3x^2$ | $15x^4$ | $-27x^3$ | $-12x^2$ |
| $7x$ | $-35x^3$ | $63x^2$ | $28x$ |
| 1 | $-5x^2$ | $9x$ | 4 |

2) $(-9x^2+-2x+-7)(-9x^2+5x+8)$

| | | | |
|---------|----------|----------|---------|
| | $-9x^2$ | $-2x$ | -7 |
| $-9x^2$ | $81x^4$ | $18x^3$ | $63x^2$ |
| $5x$ | $-45x^3$ | $-10x^2$ | $-35x$ |
| 8 | $-72x^2$ | $-16x$ | -56 |

3) $(-8x^2+7x+7)(-6x^2+7x)$

| | | | |
|---------|----------|----------|----------|
| | $-8x^2$ | $7x$ | 7 |
| $-6x^2$ | $48x^4$ | $-42x^3$ | $-42x^2$ |
| $7x$ | $-56x^3$ | $49x^2$ | $49x$ |

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

| | | |
|---------|----------|----------|
| | $9x^2$ | $4x$ |
| $-6x^2$ | $-54x^4$ | $-24x^3$ |
| $-6x$ | $-54x^3$ | $-24x^2$ |
| -2 | $-18x^2$ | $-8x$ |

5) $(-3x^2+-1x+-1)(8x^2+-2x+3)$

| | | | |
|--------|----------|---------|---------|
| | $-3x^2$ | $-1x$ | -1 |
| $8x^2$ | $-24x^4$ | $-8x^3$ | $-8x^2$ |
| $-2x$ | $6x^3$ | $2x^2$ | $2x$ |
| 3 | $-9x^2$ | $-3x$ | -3 |

6) $(3x^2+9x+-9)(-2x^2+-4x+9)$

| | | | |
|---------|----------|----------|---------|
| | $3x^2$ | $9x$ | -9 |
| $-2x^2$ | $-6x^4$ | $-18x^3$ | $18x^2$ |
| $-4x$ | $-12x^3$ | $-36x^2$ | $36x$ |
| 9 | $27x^2$ | $81x$ | -81 |

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

| | | | |
|--------|---------|---------|---------|
| | $1x^2$ | $-7x$ | -1 |
| $1x^2$ | $1x^4$ | $-7x^3$ | $-1x^2$ |
| $-9x$ | $-9x^3$ | $63x^2$ | $9x$ |

8) $(-3x^2+9x+-5)(-5x^2+-7x+1)$

| | | | |
|---------|---------|----------|---------|
| | $-3x^2$ | $9x$ | -5 |
| $-5x^2$ | $15x^4$ | $-45x^3$ | $25x^2$ |
| $-7x$ | $21x^3$ | $-63x^2$ | $35x$ |
| 1 | $-3x^2$ | $9x$ | -5 |

9) $(7x^2+-6x)(-9x^2+-2x)$

| | | |
|---------|----------|---------|
| | $7x^2$ | $-6x$ |
| $-9x^2$ | $-63x^4$ | $54x^3$ |
| $-2x$ | $-14x^3$ | $12x^2$ |

10) $(2x^2+-3x+-8)(-4x^2+5x)$

| | | | |
|---------|---------|----------|---------|
| | $2x^2$ | $-3x$ | -8 |
| $-4x^2$ | $-8x^4$ | $12x^3$ | $32x^2$ |
| $5x$ | $10x^3$ | $-15x^2$ | $-40x$ |

Respuestas

1. $15x^4-62x^3+46x^2+37x+4$

2. $81x^4-27x^3-19x^2-51x-56$

3. $48x^4-98x^3+7x^2+49x$

4. $-54x^4-78x^3-42x^2-8x$

5. $-24x^4-2x^3-15x^2-1x-3$

6. $-6x^4-30x^3+9x^2+117x-81$

7. $x^4-16x^3+62x^2+9x$

8. $15x^4-24x^3-41x^2+44x-5$

9. $-63x^4+40x^3+12x^2$

10. $-8x^4+22x^3+17x^2-40x$