



Expanda cada problema usando el método de caja.

Respuestas

1) $(5x^2 + -6x + 2)(-8x^2 + 8x + 2)$

2) $(-6x^2 + -1x + 7)(1x^2 + 4x)$

1. _____

2. _____

3. _____

4. _____

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

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

5. _____

6. _____

7. _____

8. _____

5) $(-1x^2 + 6x)(-9x^2 + 8x + 8)$

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

9. _____

10. _____

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

8) $(-5x^2 + -9x + 3)(-6x^2 + 1x)$

9) $(1x^2 + -3x + 6)(-7x^2 + 9x + -5)$

10) $(-9x^2 + 1x)(6x^2 + 3x + -9)$



Expand each problem using the box method.

1) $(5x^2 + -6x + 2)(-8x^2 + 8x + 2)$

| | | | |
|---------------------------|--------------------------|-------------------------|-----------------------|
| | $5x^2$ | $-6x$ | 2 |
| $-8x^2$ | $-40x^4$ | $48x^3$ | $-16x^2$ |
| $8x$ | $40x^3$ | $-48x^2$ | $16x$ |
| 2 | $10x^2$ | $-12x$ | 4 |

2) $(-6x^2 + -1x + 7)(1x^2 + 4x)$

| | | | |
|--------------------------|---------------------------|-------------------------|-----------------------|
| | $-6x^2$ | $-1x$ | 7 |
| $1x^2$ | $-6x^4$ | $-1x^3$ | $7x^2$ |
| $4x$ | $-24x^3$ | $-4x^2$ | $28x$ |

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

| | | | |
|---------------------------|---------------------------|-------------------------|------------------------|
| | $-1x^2$ | $-1x$ | -8 |
| $-3x^2$ | $3x^4$ | $3x^3$ | $24x^2$ |
| $9x$ | $-9x^3$ | $-9x^2$ | $-72x$ |

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

| | | | |
|---------------------------|--------------------------|------------------------|-----------------------|
| | $9x^2$ | $1x$ | 2 |
| $-5x^2$ | $-45x^4$ | $-5x^3$ | $-10x^2$ |
| $2x$ | $18x^3$ | $2x^2$ | $4x$ |
| -2 | $-18x^2$ | $-2x$ | -4 |

5) $(-1x^2 + 6x)(-9x^2 + 8x + 8)$

| | | |
|---------------------------|---------------------------|------------------------|
| | $-1x^2$ | $6x$ |
| $-9x^2$ | $9x^4$ | $-54x^3$ |
| $8x$ | $-8x^3$ | $48x^2$ |
| 8 | $-8x^2$ | $48x$ |

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

| | | | |
|--------------------------|--------------------------|------------------------|------------------------|
| | $7x^2$ | $6x$ | -9 |
| $9x^2$ | $63x^4$ | $54x^3$ | $-81x^2$ |
| $7x$ | $49x^3$ | $42x^2$ | $-63x$ |
| 6 | $42x^2$ | $36x$ | -54 |

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

| | | |
|---------------------------|---------------------------|------------------------|
| | $-9x^2$ | $3x$ |
| $-3x^2$ | $27x^4$ | $-9x^3$ |
| $-8x$ | $72x^3$ | $-24x^2$ |
| 7 | $-63x^2$ | $21x$ |

8) $(-5x^2 + -9x + 3)(-6x^2 + 1x)$

| | | | |
|---------------------------|---------------------------|-------------------------|-----------------------|
| | $-5x^2$ | $-9x$ | 3 |
| $-6x^2$ | $30x^4$ | $54x^3$ | $-18x^2$ |
| $1x$ | $-5x^3$ | $-9x^2$ | $3x$ |

9) $(1x^2 + -3x + 6)(-7x^2 + 9x + -5)$

| | | | |
|---------------------------|--------------------------|-------------------------|-----------------------|
| | $1x^2$ | $-3x$ | 6 |
| $-7x^2$ | $-7x^4$ | $21x^3$ | $-42x^2$ |
| $9x$ | $9x^3$ | $-27x^2$ | $54x$ |
| -5 | $-5x^2$ | $15x$ | -30 |

10) $(-9x^2 + 1x)(6x^2 + 3x + -9)$

| | | |
|--------------------------|---------------------------|------------------------|
| | $-9x^2$ | $1x$ |
| $6x^2$ | $-54x^4$ | $6x^3$ |
| $3x$ | $-27x^3$ | $3x^2$ |
| -9 | $81x^2$ | $-9x$ |

Respuestas

1. $-40x^4 + 88x^3 - 54x^2 + 4x + 4$

2. $-6x^4 - 25x^3 + 3x^2 + 28x$

3. $3x^4 - 6x^3 + 15x^2 - 72x$

4. $-45x^4 + 13x^3 - 26x^2 + 2x - 4$

5. $9x^4 - 62x^3 + 40x^2 + 48x$

6. $63x^4 + 103x^3 + 3x^2 - 27x - 54$

7. $27x^4 + 63x^3 - 87x^2 + 21x$

8. $30x^4 + 49x^3 - 27x^2 + 3x$

9. $-7x^4 + 30x^3 - 74x^2 + 69x - 30$

10. $-54x^4 - 21x^3 + 84x^2 - 9x$