



Expand each problem using the box method.

1) $(-6x^2 + -6x + 8)(-4x^2 + 9x)$

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

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

4) $(-7x^2 + 1x)(-5x^2 + 8x)$

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

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

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

8) $(9x^2 + -6x)(-8x^2 + -9x + 4)$

9) $(-8x^2 + -4x + -5)(-3x^2 + -7x + -2)$

10) $(-3x^2 + -9x + -1)(6x^2 + 7x + -9)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Expand each problem using the box method.

1) $(-6x^2 + -6x + 8)(-4x^2 + 9x)$

	$-6x^2$	$-6x$	8
$-4x^2$	$24x^4$	$24x^3$	$-32x^2$
$9x$	$-54x^3$	$-54x^2$	$72x$

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

	$-8x^2$	$-8x$
$9x^2$	$-72x^4$	$-72x^3$
$7x$	$-56x^3$	$-56x^2$

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

	$-7x^2$	$4x$	-2
$2x^2$	$-14x^4$	$8x^3$	$-4x^2$
$-2x$	$14x^3$	$-8x^2$	$4x$
5	$-35x^2$	$20x$	-10

4) $(-7x^2 + 1x)(-5x^2 + 8x)$

	$-7x^2$	$1x$
$-5x^2$	$35x^4$	$-5x^3$
$8x$	$-56x^3$	$8x^2$

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

	$1x^2$	$7x$	-9
$-3x^2$	$-3x^4$	$-21x^3$	$27x^2$
$9x$	$9x^3$	$63x^2$	$-81x$
-8	$-8x^2$	$-56x$	72

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

	$3x^2$	$7x$	-6
$-9x^2$	$-27x^4$	$-63x^3$	$54x^2$
$-7x$	$-21x^3$	$-49x^2$	$42x$

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

	$-4x^2$	$7x$
$2x^2$	$-8x^4$	$14x^3$
$-6x$	$24x^3$	$-42x^2$

8) $(9x^2 + -6x)(-8x^2 + -9x + 4)$

	$9x^2$	$-6x$
$-8x^2$	$-72x^4$	$48x^3$
$-9x$	$-81x^3$	$54x^2$
4	$36x^2$	$-24x$

9) $(-8x^2 + -4x + -5)(-3x^2 + -7x + -2)$

	$-8x^2$	$-4x$	-5
$-3x^2$	$24x^4$	$12x^3$	$15x^2$
$-7x$	$56x^3$	$28x^2$	$35x$
-2	$16x^2$	$8x$	10

10) $(-3x^2 + -9x + -1)(6x^2 + 7x + -9)$

	$-3x^2$	$-9x$	-1
$6x^2$	$-18x^4$	$-54x^3$	$-6x^2$
$7x$	$-21x^3$	$-63x^2$	$-7x$
-9	$27x^2$	$81x$	9

Answers

1. $24x^4 - 30x^3 - 86x^2 + 72x$

2. $-72x^4 - 128x^3 - 56x^2$

3. $-14x^4 + 22x^3 - 47x^2 + 24x - 10$

4. $35x^4 - 61x^3 + 8x^2$

5. $-3x^4 - 12x^3 + 82x^2 - 137x + 72$

6. $-27x^4 - 84x^3 + 5x^2 + 42x$

7. $-8x^4 + 38x^3 - 42x^2$

8. $-72x^4 - 33x^3 + 90x^2 - 24x$

9. $24x^4 + 68x^3 + 59x^2 + 43x + 10$

10. $-18x^4 - 75x^3 - 42x^2 + 74x + 9$