



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. $9x^4 + 6x^2 + 1$