



Expand each problem using the box method.

Answers

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

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

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



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