



Expand each problem using the box method.

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

2)  $(6x + 6)^2$

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

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

5)  $(-7x^2 + -6)^2$

6)  $(5x + 5)^2$

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

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

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

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

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Expand each problem using the box method.

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

|        |          |          |
|--------|----------|----------|
|        | $3x^2$   | $-8$     |
| $3x^2$ | $9x^4$   | $-24x^2$ |
| $-8$   | $-24x^2$ | $64$     |

2)  $(6x+6)^2$

|      |         |       |
|------|---------|-------|
|      | $6x$    | $6$   |
| $6x$ | $36x^2$ | $36x$ |
| $6$  | $36x$   | $36$  |

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

|        |         |         |
|--------|---------|---------|
|        | $6x^2$  | $9x$    |
| $6x^2$ | $36x^4$ | $54x^3$ |
| $9x$   | $54x^3$ | $81x^2$ |

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

|      |        |       |
|------|--------|-------|
|      | $2x$   | $-4$  |
| $2x$ | $4x^2$ | $-8x$ |
| $-4$ | $-8x$  | $16$  |

5)  $(-7x^2+-6)^2$

|         |         |         |
|---------|---------|---------|
|         | $-7x^2$ | $-6$    |
| $-7x^2$ | $49x^4$ | $42x^2$ |
| $-6$    | $42x^2$ | $36$    |

6)  $(5x+5)^2$

|      |         |       |
|------|---------|-------|
|      | $5x$    | $5$   |
| $5x$ | $25x^2$ | $25x$ |
| $5$  | $25x$   | $25$  |

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

|         |          |          |
|---------|----------|----------|
|         | $-8x^2$  | $4x$     |
| $-8x^2$ | $64x^4$  | $-32x^3$ |
| $4x$    | $-32x^3$ | $16x^2$  |

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

|      |        |        |
|------|--------|--------|
|      | $2x$   | $-9$   |
| $2x$ | $4x^2$ | $-18x$ |
| $-9$ | $-18x$ | $81$   |

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

|        |         |        |
|--------|---------|--------|
|        | $7x^2$  | $1x$   |
| $7x^2$ | $49x^4$ | $7x^3$ |
| $1x$   | $7x^3$  | $1x^2$ |

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

|      |         |        |
|------|---------|--------|
|      | $8x$    | $-3$   |
| $8x$ | $64x^2$ | $-24x$ |
| $-3$ | $-24x$  | $9$    |

Answers

1.  $9x^4 - 48x^2 + 64$

2.  $36x^2 + 72x + 36$

3.  $36x^4 + 108x^3 + 81x^2$

4.  $4x^2 - 16x + 16$

5.  $49x^4 + 84x^2 + 36$

6.  $25x^2 + 50x + 25$

7.  $64x^4 - 64x^3 + 16x^2$

8.  $4x^2 - 36x + 81$

9.  $49x^4 + 14x^3x^2$

10.  $64x^2 - 48x + 9$