



Expand each problem using the box method.

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

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

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

4)  $(6x-5)^2$

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

6)  $(5x^2-9x)^2$

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

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

9)  $(5x+6)^2$

10)  $(7x^2-9x)^2$

Answers

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

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

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

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

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

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

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

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

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

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



Expand each problem using the box method.

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

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

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

|         |          |          |
|---------|----------|----------|
|         | $-5x^2$  | $4$      |
| $-5x^2$ | $25x^4$  | $-20x^2$ |
| $4$     | $-20x^2$ | $16$     |

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

|       |         |        |
|-------|---------|--------|
|       | $-8x$   | $8$    |
| $-8x$ | $64x^2$ | $-64x$ |
| $8$   | $-64x$  | $64$   |

4)  $(6x-5)^2$

|      |         |        |
|------|---------|--------|
|      | $6x$    | $-5$   |
| $6x$ | $36x^2$ | $-30x$ |
| $-5$ | $-30x$  | $25$   |

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

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

6)  $(5x^2-9x)^2$

|        |          |          |
|--------|----------|----------|
|        | $5x^2$   | $-9x$    |
| $5x^2$ | $25x^4$  | $-45x^3$ |
| $-9x$  | $-45x^3$ | $81x^2$  |

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

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

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

|      |        |       |
|------|--------|-------|
|      | $2x$   | $7$   |
| $2x$ | $4x^2$ | $14x$ |
| $7$  | $14x$  | $49$  |

9)  $(5x+6)^2$

|      |         |       |
|------|---------|-------|
|      | $5x$    | $6$   |
| $5x$ | $25x^2$ | $30x$ |
| $6$  | $30x$   | $36$  |

10)  $(7x^2-9x)^2$

|        |          |          |
|--------|----------|----------|
|        | $7x^2$   | $-9x$    |
| $7x^2$ | $49x^4$  | $-63x^3$ |
| $-9x$  | $-63x^3$ | $81x^2$  |

Answers

1.  $49x^4-98x^2+49$

2.  $25x^4-40x^2+16$

3.  $64x^2-128x+64$

4.  $36x^2-60x+25$

5.  $4x^2-36x+81$

6.  $25x^4-90x^3+81x^2$

7.  $36x^4+84x^2+49$

8.  $4x^2+28x+49$

9.  $25x^2+60x+36$

10.  $49x^4-126x^3+81x^2$