



Erweitern Sie jedes Problem mit der Box-Methode.

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

Antworten

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Erweitern Sie jedes Problem mit der Box-Methode.

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 |

Antworten

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

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