

Name _____



Date _____

Polynomials

(Answer ID # 0960509)

Multiply.

1. $(-9x^6 + 10x^5 + 5x^2)(3x^2 + 4x - 2)$	2. $(-11)(-4x^2 - 4x - 11)$
3. $(-12x + 7)(-5x + 3)$	4. $(4x + 9)(-5x^2 + 4x + 11)$
5. $(5x + 5)(-5x^2 + 12x + 5)$	6. $(-12x^7 - 11x^6 - 5x^2)(9x - 6)$
7. $(-5x^5 + 9x^3)(-4x - 12)$	8. $(11x^2 + 10x + 8)(-8x - 12)$
9. $(2x^2 - 9x + 10)(8x^2 - 9x - 2)$	10. $(5x^2 - 7x - 2)(11x^2 + 8x + 3)$
11. $(7x^4 + 9x^3 + 7)(7x^2 + 3x + 12)(7x + 7)$	12. $(-7x^5 - 9x^4)(6x^2 + 6x + 5)(8x^2 - 3x - 11)$
13. $(-5x^2 + 5x + 7)(-12x - 6)$	14. $(9x^2 + 4x - 12)(-5x^2 - 2x + 8)$
15. $(6x^7 - 7x^4 + 5x)(-12x + 6)(5x - 8)$	16. $(-4)(2x + 7)$
17. $(8)(4x - 8)$	18. $(-5x^4 - 10)(3x - 11)(-2x + 12)$
19. $(-10x + 11)(-7x^3 + 11x^2 + 10x + 6)$	20. $(-5x^4 + 8x^2 - 4x)(10x^3 + 10x^2 - 5x + 12)(-6x^2 - 3x - 9)$

Answer Key 0960509

1 $-27x^8 - 6x^7 + 58x^6 - 20x^5 + 15x^4 + 20x^3 - 10x^2$

2 $44x^2 + 44x + 121$

3 $60x^2 - 71x + 21$

4 $-20x^3 - 29x^2 + 80x + 99$

5 $-25x^3 + 35x^2 + 85x + 25$

6 $-108x^8 - 27x^7 + 66x^6 - 45x^3 + 30x^2$

7 $20x^6 + 60x^5 - 36x^4 - 108x^3$

8 $-88x^3 - 212x^2 - 184x - 96$

9 $16x^4 - 90x^3 + 157x^2 - 72x - 20$

10 $55x^4 - 37x^3 - 63x^2 - 37x - 6$

11 $343x^7 + 931x^6 + 1365x^5 + 1533x^4 + 1099x^3 + 490x^2 + 735x + 588$

12 $-336x^9 - 642x^8 + 38x^7 + 963x^6 + 1114x^5 + 495x^4$

13 $60x^3 - 30x^2 - 114x - 42$

14 $-45x^4 - 38x^3 + 124x^2 + 56x - 96$

15 $-360x^9 + 756x^8 - 288x^7 + 420x^6 - 882x^5 + 336x^4 - 300x^3 + 630x^2 - 240x$

16 $-8x - 28$

17 $32x - 64$

18 $30x^6 - 290x^5 + 660x^4 + 60x^2 - 580x + 1320$

19 $70x^4 - 187x^3 + 21x^2 + 50x + 66$

20 $300x^9 + 450x^8 - 30x^7 + 255x^6 - 405x^5 - 276x^4 + 660x^3 - 900x^2 + 432x$