

03A Practice: Multiplication and Division of Polynomials

1. $5x(2x + 3)$	2. $4x^2(6x^3 - 3x^2 + 2)$
3. $-3x^3(4x^2 - 2x + 7)$	4. $-5x^2(4x^3 - 3x^2 - 7x + 2)$
5. $(5x + 3)(4x + 5)$	6. $(2x - 5)(7x - 3)$
7. $(6x + 3)(8x - 5)$	8. $(3x + 2)(4x^2 - 2x + 5)$

9. $(5x - 2)(3x^2 - 2x - 1)$	10. $\frac{10x^5 - 20x^4 + 15x^3}{5x^3}$
11. $\frac{12x^5 + 4x^2}{4x^2}$	12. $\frac{15x^5 + 12x^2 - 3x}{-3x}$
13. $\frac{14x^5 - 21x^3 + 7x^2}{-7x^2}$	14. $(5x + 7)(5x - 7)$

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Answers:

1. $10x^2 + 15x$

3. $-12x^5 + 6x^4 - 21x^3$

5. $20x^2 + 37x + 15$

7. $48x^2 - 6x - 15$

9. $15x^3 - 16x^2 - x + 2$

11. $3x^3 + 1$

13. $-2x^3 + 3x - 1$

2. $24x^5 - 12x^4 + 8x^2$

4. $-20x^5 + 15x^4 + 35x^3 - 10x^2$

6. $14x^2 - 41x + 15$

8. $12x^3 + 2x^2 + 11x + 10$

10. $2x^2 - 4x + 3$

12. $-5x^4 - 4x + 1$

14. $25x^2 - 49$