

What Did the Girl Mushroom Say About the Boy Mushroom After Their First Date ?

* write down answers on sheet

Math 9
7.2

For each exercise below, multiply the polynomial by the monomial. Find your answer in the set of answers under the exercise and notice the letter next to it. Write this letter in the box that contains the number of that exercise.

- ① $5(2n^2 + n)$
② $3n(8n^2 - 2n)$
③ $n^2(4n - 3)$
④ $-2n(4 + 5n^3)$
⑤ $-6n^2(4n^2 - 9)$

Answers:

- ① $-24n^4 - 54n$
② $24n^3 - 4n$
③ $-24n^4 + 54n^2$
④ $4n^3 - 3n^2$
⑤ $10n^2 + 5n$
⑥ $24n^3 - 6n^2$
⑦ $-8n - 6n^3$
⑧ $-8n - 10n^4$

- ⑥ $4a(a^2 - 2a + 3)$
⑦ $-2a^2(9 - a - 4a^2)$
⑧ $a^2b(a^2 - b^2)$
⑨ $-3ab^2(a^3b^2 - 2a^2b)$
⑩ $2ab(a^2 + 4ab - 3b^2)$

Answers:

- ① $4a^3 - 8a^2 + 10$
② $-18a^2 + 2a^3 + 8a^4$
③ $2a^3b + 8a^2b^2 - 6ab^3$
④ $2a^3b + 8ab^2 - 4ab$
⑤ $a^4b - a^2b^3$
⑥ $4a^3 - 8a^2 + 12a$
⑦ $-18a^2 + 2a^3 + 6a^5$
⑧ $-3a^4b^4 + 6a^3b^3$

- ⑪ $x^2y(2x^2 - 4xy + y^2)$
⑫ $-2xy^2(2x^4 - 5x^2y^2 - 3y^4)$
⑬ $4x^3y(-x^2y + 2xy - 5xy^2)$
⑭ $-x^2y^3(7xy^3 - x^2y^2 + 3x^3y)$
⑮ $3x^2y^2(2x^4y^2 - 3x^2y - 1)$

Answers:

- ① $-4x^5y^2 + 10x^3y^4 + 6xy^6$
② $2x^4y - 4x^2y^3 + x^2y^4$
③ $-4x^5y^2 + 8x^4y^2 - 20x^4y^3$
④ $-4x^5y^2 + 10x^2y^4 - 20x^2y^3$
⑤ $2x^4y - 4x^3y^2 + x^2y^3$
⑥ $6x^6y^4 - 9x^4y^3 - 3x^2y^2$
⑦ $-7x^3y^6 + x^5y^4 - 3x^3y^4$
⑧ $-7x^3y^6 + x^4y^5 - 3x^5y^4$

7	10	1	5	13	4	9	2	11	8	15	3	12	6	14
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