

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



- 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 $-8n - 10n^4$

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 $x^2y(2x^2 - 4xy + y^2)$
- ② $-2xy^2(2x^4 - 5x^2y^2 - 3y^4)$
- ③ $4x^3y(-x^2y + 2xy - 5xy^2)$
- ④ $-x^2y^3(7xy^3 - x^2y^2 + 3x^3y)$
- ⑤ $3x^2y^2(2x^4y^2 - 3x^2y - 1)$

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 $-7x^3y^6 + x^4y^5 - 3x^5y^4$

- 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 $-3a^4b^4 + 6a^3b^3$

7	10	1	5	13	4	9	2	11	8	15	3	12	6	14
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What Did the Carpenters Call Their Bass Quartet?

Simplify each expression. Assume that no divisor equals zero. Find your answer in the set of answers under the exercise and cross out the box above it. When you finish, the answer to the title question will remain.

1	$\frac{6x+9}{3}$	6	$\frac{12v^5-27v^4}{3v^2}$	11	$\frac{8a^3+4a^2-24a}{4a}$	U	$2a^2-a-1$	R	$3b^3-4ab-1$	O	$3b^3+2ab+5a^3$	B	$-a^2-4ab+1$	E	$2a^2+a-6$	A	$3b^3-3ab-8b^2$	S	$5a^3b+a^2b^2-2ab^3$	4	$5a^3b+a^2b^3-4ab^2$	N	$-a^2+3ab-8b^2$	
2	$\frac{18x^2-50}{2}$	7	$\frac{30u^4-6u}{-6u}$	12	$\frac{21ab^3+14a^2b+35a^4}{7a}$	L	$-5u^3+1$	8	$u+v$	T	$4v^3+2v$	A	$2uv-v^4$		$2a^2+a-6$		$3b^3-3ab-8b^2$		$5a^3b+a^2b^2-2ab^3$		$5a^3b+a^2b^3-4ab^2$		$-a^2+3ab-8b^2$	
3	$\frac{12x^2+20x}{4x}$	8	$\frac{u^2v+uv^2}{uv}$	13	$\frac{2a^3b-6a^2b^2+16ab^3}{-2ab}$		$4v^3-9v^2$		$4v^3+2v$		$4v^3-9v^2$		$2uv-v^4$		$2a^2+a-6$		$3b^3-3ab-8b^2$		$5a^3b+a^2b^2-2ab^3$		$5a^3b+a^2b^3-4ab^2$		$-a^2+3ab-8b^2$	
4	$\frac{20x^3+5x^2}{5x}$	9	$\frac{8uv^4-14u^2v^3}{2uv}$	14	$\frac{45a^2b^4-60a^3b^2-15a^2b}{15a^2b}$		$2uv-5v$		$4v^3+2v$		$4v^3-9v^2$		$2uv-v^4$		$2a^2+a-6$		$3b^3-3ab-8b^2$		$5a^3b+a^2b^2-2ab^3$		$5a^3b+a^2b^3-4ab^2$		$-a^2+3ab-8b^2$	
5	$\frac{2x^3-7x^2}{x^2}$	10	$\frac{-10u^3v^2+5u^2v^5}{-5u^2v}$	15	$\frac{15a^5b^4+3a^4b^5-6a^3b^6}{3a^2b^3}$		$4v^3-7uv^2$		$4v^3+2v$		$4v^3-9v^2$		$2uv-v^4$		$2a^2+a-6$		$3b^3-3ab-8b^2$		$5a^3b+a^2b^2-2ab^3$		$5a^3b+a^2b^3-4ab^2$		$-a^2+3ab-8b^2$	
A	$2x-7$																							
4	$3x+5$																							
T	$4x^2+5$																							
O	$2x+3$																							
S	$4x^2+x$																							
H	$3x-25$																							
2	$9x^2-25$																							
N	$4v^3-7uv^2$																							
E	$2uv-5v$																							
B	$4v^3-9v^2$																							
8	$u+v$																							
T	$4v^3+2v$																							
A	$2uv-v^4$																							
L	$-5u^3+1$																							
U	$2a^2-a-1$																							
R	$3b^3-4ab-1$																							
O	$3b^3+2ab+5a^3$																							
B	$-a^2-4ab+1$																							
E	$2a^2+a-6$																							
A	$3b^3-3ab-8b^2$																							
S	$5a^3b+a^2b^2-2ab^3$																							
4	$5a^3b+a^2b^3-4ab^2$																							
N	$-a^2+3ab-8b^2$																							