



Multiplying Polynomials - Box Method

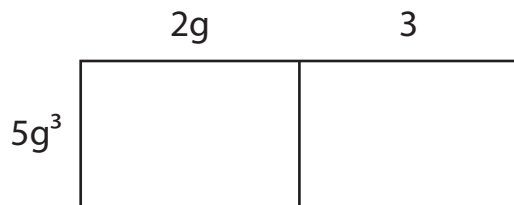
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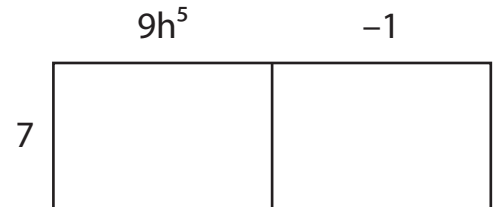
BM:01

Multiply the polynomials using box method.

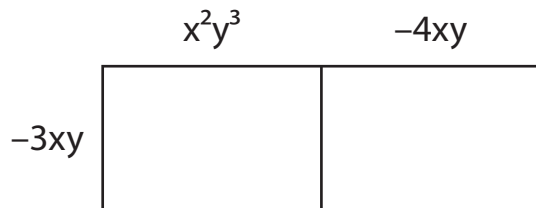
1) $5g^3(2g + 3) =$



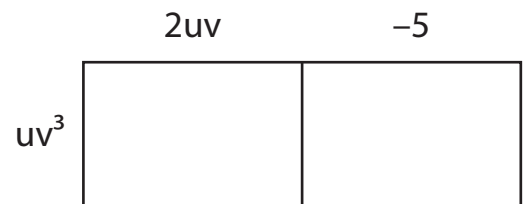
2) $7(9h^5 - 1) =$



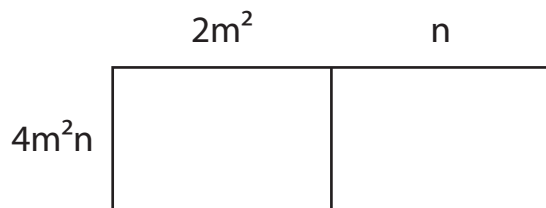
3) $-3xy(x^2y^3 - 4xy) =$



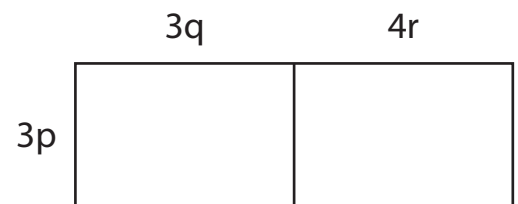
4) $uv^3(2uv - 5) =$



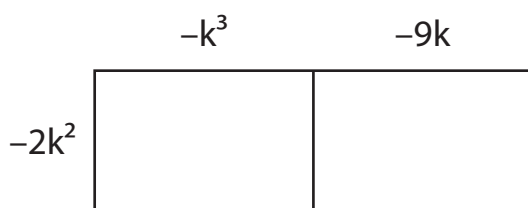
5) $4m^2n(2m^2 + n) =$



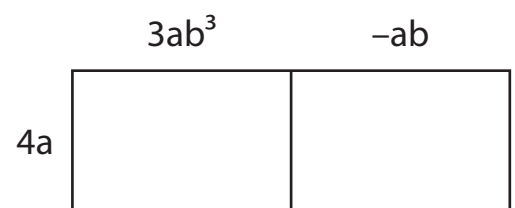
6) $3p(3q + 4r) =$



7) $-2k^2(-k^3 - 9k) =$



8) $4a(3ab^3 - ab) =$





Answer key

BM:01

Multiply the polynomials using box method.

1) $5g^3(2g + 3) = 10g^4 + 15g^3$

	2g	3
5g ³	10g ⁴	15g ³

2) $7(9h^5 - 1) = 63h^5 - 7$

	9h ⁵	-1
7	63h ⁵	-7

3) $-3xy(x^2y^3 - 4xy) = 10g^4 + 15g^3$

	x ² y ³	-4xy
-3xy	-3x ³ y ⁴	12x ² y ²

4) $uv^3(2uv - 5) = 2u^2v^4 - 5uv^3$

	2uv	-5
uv ³	2u ² v ⁴	-5uv ³

5) $4m^2n(2m^2 + n) = 8m^4n + 4m^2n^2$

	2m ²	n
4m ² n	8m ⁴ n	4m ² n ²

6) $3p(3q + 4r) = 9pq + 12pr$

	3q	4r
3p	9pq	12pr

7) $-2k^2(-k^3 - 9k) = 2k^5 + 18k^3$

	-k ³	-9k
-2k ²	2k ⁵	18k ³

8) $4a(3ab^3 - ab) = 10g^4 + 15g^3$

	3ab ³	-ab
4a	12a ² b ³	-4a ² b