

Name : _____

Multiplying Polynomials

Multi-variable: S1

Multiply the following.

1) $m^5(6mn^6 + 3 + m^3n)$

2) $-2b^4cd^2(-d^7 + 2b^2c^5 + bcd + 4c^5)$

3) $-\frac{7}{5}gh^6\left(10h^6 - \frac{1}{2}\right)$

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5) $3r^3s(-s - 7q^4 + qr^3)$

$z^2 - \frac{3}{4}y^3 - 2 - 4x^5$

7) $-9uvw^4(7u^6 + 9v^3w - v^2)$

8) $p^3q^3r(-6r^7 - 4p^4 - 65 + 8q^6)$

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Answer key

Multiplying Polynomials

Multi-variable: S1

Multiply the following.

1) $m^5(6mn^6 + 3 + m^3n)$

2) $-2b^4cd^2(-d^7 + 2b^2c^5 + bcd + 4c^5)$

$6m^6n^6 + m^8n + 3m^5$

$-4b^6c^6d^2 + 2b^4cd^9 - 8b^4c^6d^2 - 2b^5c^2d^3$

3) $-\frac{7}{5}gh^6\left(10h^6 - \frac{1}{2}\right)$

PREVIEW

$^4 + 21)$

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$-14gh^{12} + \frac{7}{10}g^3h^6$

$^5 + 56tu$

5) $3r^3s(-s - 7q^4 + qr^2)$

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$^3z^2 - \frac{3}{4}y^3 - 2 - 4x^5)$

$3qr^6s^2 - 21q^4r^3s$

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$12x^{10}z^2 + 9x^7y^3 + 24x^7$

7) $-9uvw^4(7u^6 + 9v^3w - v^2)$

8) $p^3q^3r(-6r^7 - 4p^4 - 65 + 8q^6)$

$-63u^7vw^4 - 81uv^4w^5 + 9uv^3w^4$

$-6p^3q^3r^8 + 8p^3q^9r - 4p^7q^3r - 65p^3q^3r$