

Name : _____

Multiplying Polynomials

Multi-variable: S2

Multiply the polynomials.

1) $(-3g^2h - 6)(-4gh^3 - g^5h^5 + 2g^3h^4)$

2) $\left(-21s^2 - 14st - \frac{7}{2}t^2\right)\left(\frac{6}{7}s - \frac{4}{7}t\right)$

3) $(14p^2q^4 + 9q + 7pqr^2$

$+ 3ac^2 - 9)$

5) $(-c^4d^4 - c^3d^3)(-1 - 8c$

$2m^4n^5 - n - mn^6)$

7) $\left(-\frac{1}{2}xy + wy + \frac{5}{2}x + 5w\right)(-6w^6 + 3w^5x)$

8) $(u^3 + u + 3v^5 - v)(3u^3 - 9v^5)$

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Answer key

Multiplying Polynomials

Multi-variable: S2

Multiply the polynomials.

1) $(-3g^2h - 6)(-4gh^3 - g^5h^5 + 2g^3h^4)$

2) $\left(-21s^2 - 14st - \frac{7}{2}t^2\right)\left(\frac{6}{7}s - \frac{4}{7}t\right)$

$3g^7h^6 + 24gh^3$

$-18s^3 + 2t^3 + 5st^2$

3) $(14p^2q^4 + 9q + 7pqr^2$

$+ 3ac^2 - 9)$

PREVIEW

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$-56p^4q^7 + 14p^2qr^4 -$

$+ 9a^5c^4 - 81a^3$

5) $(-c^4d^4 - c^3d^3)(-1 - 8c$

$2m^4n^5 - n - mn^6)$

$8c^7d^7 + 14c^6d^6 + 5c^5$

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$8mn^6 + 98m^3 - 7n$

7) $\left(-\frac{1}{2}xy + wy + \frac{5}{2}x + 5w\right)(-6w^6 + 3w^5x)$

8) $(u^3 + u + 3v^5 - v)(3u^3 - 9v^5)$

$6w^6xy - \frac{3}{2}w^5x^2y - 6w^7y - 30w^7 + \frac{15}{2}w^5x^2$

$-27v^{10} + 3u^6 + 9v^6 - 9uv^5 - 3u^3v + 3u^4$