

Name : _____

Multiplying Polynomials

Multi-variable: S3

Multiply the polynomials.

1) $(-b^2c + 4c^3d + 2 + d)(b^2 + 4c^2d)$

2) $(-2x + w^2)(8x^3 + w^6 + 2w^4x + 4w^2x^2)$

3) $\left(-\frac{1}{4}u + \frac{1}{6}v^4\right)(72u -$

PREVIEW

$3pq - q)$

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5) $(6z + 2y)(y^2 + 9z^2 - 3$

$1)\left(5gh - \frac{5}{2}g\right)$

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7) $(-3m^6 + mn^4 - n^4 + 3m^5)(-3m^5 - n^4)$

8) $(-q^4r - 4q^2)(-24r^5 - s + 6q^2r^6)$

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Answer key

Multiplying Polynomials

Multi-variable: S3

Multiply the polynomials.

1) $(-b^2c + 4c^3d + 2 + d)(b^2 + 4c^2d)$

2) $(-2x + w^2)(8x^3 + w^6 + 2w^4x + 4w^2x^2)$

$16c^5d^2 - b^4c + 4c^2d^2 + b^2d + 8c^2d + 2b^2$

$w^8 - 16x^4$

3) $\left(-\frac{1}{4}u + \frac{1}{6}v^4\right)(72u -$

PREVIEW

$3pq - q)$

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$-4tu^3v^6 + 8v^8 + 6tu^4$

$4q$

5) $(6z + 2y)(y^2 + 9z^2 - 3$

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$1)\left(5gh - \frac{5}{2}g\right)$

$2y^3 + 54z^3$

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$ghk + 40gh + 30gk$

7) $(-3m^6 + mn^4 - n^4 + 3m^5)(-3m^5 - n^4)$

8) $(-q^4r - 4q^2)(-24r^5 - s + 6q^2r^6)$

$9m^{11} - 9m^{10} - mn^8 + n^8$

$-6q^6r^7 + 96q^2r^5 + q^4rs + 4q^2s$