

Name : _____

Multiplying Polynomials

Multi-variable: S1

Multiply the polynomials.

1) $\left(-\frac{5}{3}v^2 + 25w^2 - 5vw\right)\left(\frac{3}{5}v - \frac{9}{5}w\right)$

2) $(8g + h)(-2h^5 + gh^4 + h - g)$

3) $(-3b - a^2)(6ab^3 + a^3b$

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5) $(5p - 4r^4 - 14)(-7q^3 -$

$\frac{1}{7}mn - 2m^3 + 8 + \frac{1}{2}m^6)$

$r^3z)(1 + x^2y)$

7) $(-2v^3 - 2u - 3 - v)(v^3 - u)$

8) $\left(-\frac{8}{9} + \frac{4}{9}d^6\right)\left(81 + \frac{9}{4}c + \frac{9}{2}cd^6\right)$

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Answer key

Multiplying Polynomials

Multi-variable: S1

Multiply the polynomials.

1) $\left(-\frac{5}{3}v^2 + 25w^2 - 5vw\right)\left(\frac{3}{5}v - \frac{9}{5}w\right)$

2) $(8g + h)(-2h^5 + gh^4 + h - g)$

$-v^3 + 24vw^2 - 45w^3$

$-15ah^5 + 8a^2h^4 - 2h^6 - 8g^2 + h^2 + 7gh$

3) $(-3b - a^2)(6ab^3 + a^3b)$

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$\frac{1}{7}mn - 2m^3 + 8 + \frac{1}{2}m^6$

$-a^5b^4 - 3a^3b^5 - 6a^3b$

$4mn^3 - 56n^2$

5) $(5p - 4r^4 - 14)(-7q^3 - 3r^2)$

$r^3z(1 + x^2y)$

$-8q^3r^8 + 10pq^3r^4 - 3$

7) $(-2v^3 - 2u - 3 - v)(v^3 - u)$

8) $\left(-\frac{8}{9} + \frac{4}{9}d^6\right)\left(81 + \frac{9}{4}c + \frac{9}{2}cd^6\right)$

$-2v^6 - v^4 - 3v^3 + 2u^2 + uv + 3u$

$2cd^{12} - 3cd^6 + 36d^6 - 2c - 72$