

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