

Name : \_\_\_\_\_

Single-variable: 53

## Multiplying Polynomials

Multiply the polynomials.

1)  $(1 + 2c^6 - 3c^5)(9c^5 - 7c^6)$

2)  $(4z^4 - 2z^2)(16z^6 + 8z^4 + 4z^2 + 10)$

3)  $\left(\frac{2}{5}k^6 + k^5 - 2k^4 + \frac{1}{2}\right)$

$+ 2w^2)$

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5)  $(-8g^3 + 1 - 4g^5 + 2g^2)$

$(d^4 + 8 + 4d^2)$

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7)  $(-5r^4 - 6r^3)(-3r + 5r^3 - 6r^2)$

8)  $\left(-\frac{1}{4}v + \frac{5}{2}\right)\left(4v^4 + 8v^5 - \frac{4}{5}v^6\right)$