

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

## Multiplying Polynomials

Single-variable: S1

Multiply the polynomials.

1)  $(1 + 3a^5)(17a^2 + 9a^6 - 20)$

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

3)  $(-3m^2 - 3m)(-3m^4 + 3m^3 + m^2 + m)$

4)  $(-2p - 4p^2 - 8p^3)(-10p^3 + 5p^2)$

5)  $(2s^2 + 12 + 2s)\left(\frac{1}{2}s - \frac{1}{2}\right)$

6)  $\left(u^3 - \frac{5}{6}u^4\right)\left(-\frac{3}{2}u^5 - u^4 - 6u^3 + 18\right)$

7)  $(1 + x^2 + x^6 + x^4)(-x^2 + 1)$

8)  $(-3r^3 - 3r)(r^5 - 30 - r^3)$