

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

Single-variable: S2

## Multiplying Polynomials

Multiply the polynomials.

1)  $\left(\frac{2}{3} + 2h^2\right)\left(-\frac{7}{2}h - 21h^3 + \frac{2}{7} - 6h^2\right)$

2)  $\left(b - \frac{9}{8}\right)(-16b^4 - 24b^2 + 8b^3)$

3)  $(-n^4 + n^3 + 5)(-7n -$

$v^6)(-v^4 - 3v^6)$

5)  $(3y - y^2)(11 + 3y^5 -$

$+ 4q^4 - 2q^5)$

7)  $(t + 13 + t^2)(-4 + 4t)$

8)  $(-3u^4 + u^3 + u^2 + u)(-3u^2 + 11u)$

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

## Answer key

Single-variable: S2

### Multiplying Polynomials

Multiply the polynomials.

1)  $\left(\frac{2}{3} + 2h^2\right)\left(-\frac{7}{2}h - 21h^3 + \frac{2}{7} - 6h^2\right)$

2)  $\left(b - \frac{9}{8}\right)(-16b^4 - 24b^2 + 8b^3)$

$-42h^5 - 12h^4 - 21h^3 - \frac{24}{7}h^2 - \frac{7}{2}h + \frac{4}{7}$

$-16b^5 + 26b^4 - 33b^3 + 27b^2$

3)  $(-n^4 + n^3 + 5)(-7n - 1)$

$(v^6)(-v^4 - 3v^6)$

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$3n^6 + 4n^5 - 7n^4 - 1$

$-4v^4$

5)  $(3y - y^2)(11 + 3y^5 - 1)$

$(q^4 + 4q^4 - 2q^5)$

$-3y^7 + 9y^6 + 7y^4 - 1$

7)  $(t + 13 + t^2)(-4 + 4t)$

8)  $(-3u^4 + u^3 + u^2 + u)(-3u^2 + 11u)$

$4t^3 + 48t - 52$

$9u^6 - 36u^5 + 8u^4 + 8u^3 + 11u^2$