

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

## Multiplying Polynomials

Single-variable: S1

Multiply the following.

1)  $5r^7(5r^3 + 7 + 11r^6)$

2)  $-12u^2(-4u^6 - 4 + 2u^4 + 3u^5)$

3)  $-7a^4\left(-10a^5 - \frac{1}{7}a^2\right)$

# PREVIEW

$x^2$

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5)  $d^6(6d^2 + 67d - 7d)$

$3n^2 + 35n^5 + 16n^6$

7)  $-\frac{4}{9}q^5\left(-q^5 + \frac{9}{2}q^7 - 18q^6\right)$

8)  $3z^7(4z + 19 - 12z^7 - 9z^4)$

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## Answer key

### Multiplying Polynomials

Single-variable: S1

Multiply the following.

1)  $5r^7(5r^3 + 7 + 11r^6)$

2)  $-12u^2(-4u^6 - 4 + 2u^4 + 3u^5)$

$55r^{13} + 25r^{10} + 35r^7$

$48u^8 - 36u^7 - 24u^6 + 48u^2$

3)  $-7a^4\left(-10a^5 - \frac{1}{7}a^2\right)$

# PREVIEW

$x^2$

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$91a^{10} + 70a^9 + 6a^2$

$1x^5$

5)  $d^6(6d^2 + 67d - 7d^3)$

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$3n^2 + 35n^5 + 16n^6$

$-7d^{13} + 6d^8 + 67d^4$

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$40n^4 - 6n^2 + 2n$

7)  $-\frac{4}{9}q^5\left(-q^5 + \frac{9}{2}q^7 - 18q^6\right)$

8)  $3z^7(4z + 19 - 12z^7 - 9z^4)$

$-2q^{12} + 8q^{11} + \frac{4}{9}q^{10}$

$-36z^{14} - 27z^{11} + 12z^8 + 57z^7$