

Name : _____

Multiplying Polynomials

Single-variable: S2

Multiply the following.

1) $-\frac{5}{4}\left(4g + 12g^3 + \frac{8}{5}g^5 - \frac{4}{5}g^2\right)$

2) $4t^5(10t^6 - 7t^7 + 4t^2)$

3) $13s^7(-5 + 2s^7 + s^4)$

$6w^2 + 3w + 11w^3$

5) $-8b^6(b^3 + 4b^6 - 3)$

$r^3 + v^2$

7) $-10c(-7c^7 - 4c - 9)$

8) $-\frac{2}{3}h^3\left(24h^2 - \frac{9}{4}h + 9h^5 + \frac{1}{3}h^3 - 4h^6\right)$

PREVIEW

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Answer key

Multiplying Polynomials

Single-variable: S2

Multiply the following.

1) $-\frac{5}{4}\left(4g + 12g^3 + \frac{8}{5}g^5 - \frac{4}{5}g^2\right)$

2) $4t^5(10t^6 - 7t^7 + 4t^2)$

$-2g^5 - 15g^3 + g^2 - 5g$

$-28t^{12} + 40t^{11} + 16t^7$

3) $13s^7(-5 + 2s^7 + s^4)$

PREVIEW

$6w^2 + 3w + 11w^3$

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$26s^{14} + 13s^{11} - 6s^7$

$36w^4 + 18w^3 + 72w^2$

5) $-8b^6(b^3 + 4b^6 - 3b^9)$

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$r^3 + v^2$

$-32b^{12} + 24b^{11} + 24b^9$

$v^6 + 18v^4$

7) $-10c(-7c^7 - 4c - 9)$

8) $-\frac{2}{3}h^3\left(24h^2 - \frac{9}{4}h + 9h^5 + \frac{1}{3}h^3 - 4h^6\right)$

$70c^8 + 40c^2 + 90c$

$\frac{8}{3}h^9 - 6h^8 - \frac{2}{9}h^6 - 16h^5 + \frac{3}{2}h^4$