

Name : _____

Multiplying Binomials

Single-variable: S3

Multiply the following.

1) $\left(\frac{2}{5}s^4 + s^6\right)(-25s^2 + 10)$

2) $(-8d^5 - d^4)(-5d^4 + d^3)$

3) $(-9z + z^3)(2z$

PREVIEW

$4m^3 - m^4)$

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5) $(5n - 1)(-10n$

$r^6 + r^4)$

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

8) $\left(\frac{5}{2}v^4 - 14\right)\left(\frac{8}{7}v - 3\right)$

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Name : _____

Answer key

Multiplying Binomials

Single-variable: S3

Multiply the following.

1) $\left(\frac{2}{5}s^4 + s^6\right)(-25s^2 + 10)$

$-25s^8 + 4s^4$

2) $(-8d^5 - d^4)(-5d^4 + d^3)$

$40d^9 - 3d^8 - d^7$

3) $(-9z + z^3)(2z^2 + 3z - 4)$

$-9z^9 + 2z^8 +$

5) $(5n - 1)(-10n^2 + 3n - 2)$

$-50n^2 - 30n$

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

$-3h^9 - 27h^7 - 42h^5$

8) $\left(\frac{5}{2}v^4 - 14\right)\left(\frac{8}{7}v - 3\right)$

$\frac{20}{7}v^5 - \frac{15}{2}v^4 - 16v + 42$

PREVIEW

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$4m^3 - m^4$

$n^5 - 2m^4 - 8m^3$

$r^6 + r^4$

$8r^7$