

Name : _____

Simplifying Polynomial Expressions

MS4

Simplify each expression.

1) $\frac{7}{5}(5p^7 + 10p^8) - 6p(5p^7 - 2)$

2) $(8r^3 + 3r^2)(7r^2 - 9r^3)$

3) $(5x - 2)(3x^2 + 9x^3 - 11x^4)$

4) $\frac{24}{10z^2 + 5z^3} - 7(z^2 + 6)$

5) $3(-4y^2 - 13y^4 - 2)$

Gain complete access to the largest collection of worksheets in all subjects!

$- 7(8t^2 + 7t^3)$

7) $\frac{9}{4}(6d^2 - 8d^4) + \frac{3}{4}$

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

$^9 + 6q^6)$

www.mathworksheets4kids.com

9) $14m^7 + 2(4m^6 - 3m^7) + 16$

10) $\frac{5}{2}n(4n^4 + 6n - 2n^9) - 5n^5$

Simplifying Polynomial Expressions

Simplify each expression.

1) $\frac{7}{5}(5p^7 + 10p^8) - 6p(5p^7 - 2)$

$12p + 7p^7 - 16p^8$

2) $(8r^3 + 3r^2)(7r^2 - 9r^3)$

$-72r^6 + 29r^5 + 21r^4$

3) $(5x - 2)(3x^2 + 9x^3 - 11x^4)$

$-55x^5 + 67x^4 - 22x^3 + 2x^2 - 22x + 2$

4) $\frac{24}{10}(10z^2 + 5z^3) - 7(z^2 + 6)$

$+24z^3 - 7z^2 - 42$

5) $3(-4y^2 - 13y^4 - 2y^5) + 8y^2$

$-39y^4 - 21y^3 + 8y^2 - 12y^5$

Gain complete access to the largest
collection of worksheets in all subjects!

$-7(8t^2 + 7t^3)$

7) $\frac{9}{4}(6d^2 - 8d^4) + \frac{3}{4}d^2$

$-15d^4 + 12d^2 + \frac{9}{4}d^2$

Not a member?
Please sign up to
gain complete
access.

$2t^2 - 49t^3$

$9 + 6q^6$

9) $14m^7 + 2(4m^6 - 3m^7) + 16$

$8m^7 + 8m^6 + 16$

10) $\frac{5}{2}n(4n^4 + 6n - 2n^9) - 5n^5$

$-22q + 11q^6$

$15n^2 + 5n^5 - 5n^{10}$