

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

## Simplifying Polynomial Expressions

MS2

Simplify each expression.

1)  $\frac{3}{2}(5x^2 - 3x^2 + 6x^3) - \frac{11}{3}(6x^3 + 9)$

2)  $(5 - p)(2p^2 + 7p^3 - 5p^2)$

3)  $15(5a^4 - 2a^3 + 9a^3 - 5a^4 - 6a^3) + 12a^4$

4)  $6d^4 + 2(7d^4 - 3d^5) - 2d(10d^4 + 4)$

# PREVIEW

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

Members, please  
log in to  
download this  
worksheet.

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

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

5)  $\frac{6}{4}(3x^2 + 4x^3 - 19x^2)$

$-7r^2) - (3r^2 - 7r)$

7)  $-14s^2 + 6s^2 + 2s^2$

$7(5d + 11) + 5(3d - 2)$

9)  $\frac{1}{4}(4y^2 + 8y^3 - 11y^5 + 12y^2 - 5y^5 + 4y^3)$

10)  $(5b^4 - 2b^5)(6b^5 + b^4)$

## Simplifying Polynomial Expressions

Simplify each expression.

1)  $\frac{3}{2}(5x^2 - 3x^2 + 6x^3) - \frac{11}{3}(6x^3 + 9)$

$-13x^3 + 3x^2 - 33$

2)  $(5 - p)(2p^2 + 7p^3 - 5p^2)$

$-7p^4 + 38p^3 - 15p^2$

3)  $15(5a^4 - 2a^3 + 9a^3 - 5a^4 - 6a^3) + 12a^4$

$15a^3 + 12a^4$

4)  $6d^4 + 2(7d^4 - 3d^5) - 2d(10d^4 + 4)$

$d^4 - 8d$

5)  $\frac{6}{4}(3x^2 + 4x^3 - 19x^2)$

$-33x^2 + 6x^3 + 2$

**PREVIEW**

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

Members, please log in to download this worksheet.

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

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

$-7r^2 - (3r^2 - 7r)$

$+ 7r$

7)  $-14s^2 + 6s^2 + 2s^2$

$16s^3 - 18s^2$

$7(5d + 11) + 5(3d - 2)$

$- 127$

9)  $\frac{1}{4}(4y^2 + 8y^3 - 11y^5 + 12y^2 - 5y^5 + 4y^3)$

$4y^2 + 3y^3 - 4y^5$

10)  $(5b^4 - 2b^5)(6b^5 + b^4)$

$5b^8 + 28b^9 - 12b^{10}$