Solving for x: Lesson 04

Combining Terms: Worksheet 1

ANSWERS!

MATH ALL

Name: _____

Simplify by adding like terms:

$10d^3e - 4de - de^2 + 7de - 13d^3e$

$-3d^3e - de^2 + 3de$

$\frac{5}{2}a - \frac{3}{2} + 1a + \frac{7}{2} - 3a^2$ ($1 = \frac{2}{2}$)

$-3a^2 + \frac{7}{2}a + \frac{4}{2} = -3a^2 + \frac{7}{2}a + 2$

Simplify:

$y^5 \cdot y^7 = y^{12}$

$w^4 \cdot w^1 = w^5$

$4cd^2 \cdot (-3cd) = -12c^2d^3$

$-2m \cdot n^3 \cdot m^4 = -2m^5n^3$

Notice the difference between adding and multiplying:

$4kj^2 + 7kj^2 = 11kj^2$

$4kj^2 \cdot 7kj^2 = 28k^2j^4$

Challenges: Multiply within each term and then combine any like terms.

$-3w^2(2wx) - 5w^3(y^2w) + w^3x + 3(w) \cdot (-6w^2x) + 3 =$

$-6w^3x - 5w^4y^2 + w^3x - 18w^3x + 3 = -5w^4y^2 - 23w^3x + 3$

$17abc + 3 - a(-2b^2) - 2b \cdot 4ac - ab^2 - 2 + 3a \cdot 3bc =$

$17abc + 3 + 2ab^2 - 8abc - ab^2 - 2 + 9abc = 18abc + ab^2 + 1$