

Combining Expressions 2 - KEY

Simplify the following expressions completely

1) $(2xy)(3x^3y) = 6x^4y^2$

9) $\frac{8x + 4y}{4} = 2x + y$

2) $x^2 \cdot x^3 = x^5$

10) $x - 3x = -2x$

3) $7x^3 - 2x^3 = 5x^3$

11) $\frac{(4xy^3)^2}{(2y^2)^3} = 2x^2$

4) $-4x^3 + 3x^2 - 2x^3$
 $= -6x^3 + 3x^2$

5) $\frac{6xy^3}{6x^2y^5} = \frac{1}{xy^2}$

12) $-6x - 3x = -9x$

6) $8x + 2x^2$
Can't Simplify

13) $\frac{3x^2 - 6x + 12}{3} = x^2 - 2x + 4$

7) $(-4x^5)^2 = 16x^{10}$

14) $(-2x^3y)^2(-1x^3y^4)^3 = -4x^{15}y^{14}$

8) $5xy^2 + 8xy + 4x^2y$
Can't Simplify

15) $(3x^5y^4)(2xy^3) = 6x^6y^7$