

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 2C.1 - Combining Like Terms

#1-10, Simplify each expression.

1. $\underline{2} + \underline{3x} - \underline{4y} + \underline{11y} - \underline{6} - \underline{9x} - \underline{4y} + \underline{1}$

= $\boxed{-3 - 6x + 3y}$

2. $\underline{-2} + \underline{5g} - \underline{4h} + \underline{3h} + \underline{7g} + \underline{4} - \underline{10g} - \underline{h}$

= $\boxed{2 + 2g - 2h}$

3. $\underline{5x^2} + \underline{2x^3} - \underline{6x^2} + \underline{10x} - \underline{12x^3} + \underline{x^2} - \underline{4x}$

= $\boxed{-10x^3 + 6x}$

4. $\underline{10ab^2} + \underline{29a^2b} - \underline{21a^2b} - \underline{15ab^2}$

= $\boxed{-5ab^2 + 8a^2b}$

5. $3r + 2(4r - 1) + 3 + 10r - r$

= $\underline{3r} + \underline{8r} - \underline{2} + \underline{3} + \underline{10r} - \underline{r}$

= $\boxed{20r + 1}$

6. $-4(2c + 5) + 3 - 1(c - 6) + 3c + 9$

= $\underline{-8c} - \underline{20} + \underline{3} - \underline{c} + \underline{6} + \underline{3c} + \underline{9}$

= $\boxed{-6c - 2}$

7. $1(z^2 + 5z - 3) - 1(z^2 + 5z - 3)$

= $\underline{z^2} + \underline{5z} - \underline{3} - \underline{z^2} - \underline{5z} + \underline{3}$

= $\boxed{0}$

8. $1(x^2 - 3x + 2) - 2(3x^2 + 2x - 7)$

= $\underline{x^2} - \underline{3x} + \underline{2} - \underline{6x^2} - \underline{4x} + \underline{14}$

= $\boxed{-5x^2 - 7x + 16}$

9. $3(x^2y + xy^2) + 6(2xy^2 + 4x^2y)$

= $\underline{3x^2y} + \underline{3xy^2} + \underline{12xy^2} + \underline{24x^2y}$

= $\boxed{27x^2y + 15xy^2}$

10. $\frac{1}{2}(4a + 2b) - \frac{1}{3}(6a - 12b)$

= $\underline{2a} + \underline{b} - \underline{2a} + \underline{4b}$

= $\boxed{5b}$