

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 2C.2 - More Combining Like Terms

#1-10, Simplify each expression.

1. $9a + 10(6a - 1) + 2a - 12$

$$= \underline{9a} + \underline{60a} - \underline{10} + \underline{2a} - \underline{12}$$

$$= \boxed{71a - 22}$$

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

$$= \underline{-54m} + \underline{27} + \underline{6} + \underline{24m} - \underline{5} + \underline{1m}$$

$$= \boxed{-29m + 28}$$

3. $-10(1 - 9x) + 4x + 6(x - 10) + 20$

$$= \underline{-10} + \underline{90x} + \underline{4x} + \underline{6x} - \underline{60} + \underline{20}$$

$$= \boxed{-50 + 100x}$$

4. $5(-2n + 4 - 3p) - 2(6p - 3n + 1) + 10n$

$$= \underline{-10n} + \underline{20} - \underline{15p} - \underline{12p} + \underline{6n} - \underline{2} + \underline{10n}$$

$$= \boxed{6n + 18 - 27p}$$

5. $-3(5b^2 + 4) + (b^2 + 2) - b^2$

$$= \underline{-15b^2} - \underline{12} + \underline{b^2} + \underline{2} - \underline{b^2}$$

$$= \boxed{-15b^2 - 10}$$

6. $-(5 - 3w) + (8w + 1) - 2(-6w + 4)$

$$= \underline{-5} + \underline{3w} + \underline{8w} + \underline{1} + \underline{12w} - \underline{8}$$

$$= \boxed{-12 + 23w}$$

7. $4x^3 - 2(3x^3 + 5x^2) + 6x - (9x^2 + 2x^3)$

$$= \underline{4x^3} - \underline{6x^3} - \underline{10x^2} + \underline{6x} - \underline{9x^2} - \underline{2x^3}$$

$$= \boxed{-4x^3 - 19x^2 + 6x}$$

8. $8abc - 12abc^5 + 3abc - 4ab^5c + 8abc^5$

$$= \boxed{11abc - 4abc^5 - 4ab^5c}$$

9. $(10mn^2 - 4m^2n) - 4(-m^2n + 5mn^2)$

$$= \underline{10mn^2} - \underline{4m^2n} + \underline{4m^2n} - \underline{20mn^2}$$

$$= \boxed{-10mn^2}$$

10. $\frac{5}{6}(18z^3 - 12z^2) - \frac{3}{4}(16z^2 - 20z^3) + 8z^3$

$$= \underline{15z^3} - \underline{10z^2} - \underline{12z^2} + \underline{15z^3} + \underline{8z^3}$$

$$= \boxed{38z^3 - 22z^2}$$