Solutions to WS 9.2 - More Combining Like Terms, #1-53 odd

(1) $4xy^2z - xy^2z \Rightarrow$ like

(3) $7a^2b + 3ab^2 \Rightarrow$ unlike

(5) $2x + 6x \Rightarrow$ like

(7) $2 + 5m \Rightarrow$ unlike

(9) $t^2 - t \Rightarrow$ unlike

(11) $b + 3b \Rightarrow$ like

(13) $3x + 5x$
$= 8x$

(15) $-9t - 3t$
$= -12t$

(17) $9 + 2t + 6$
$= 15 + 2t$

(19) $15g^2 - 3g^2$
$= 12g^2$

(21) $5x + 2x + 6x^2 + x^2$
$= 7x^2 + 7x$

(23) $-2 + 5g - 4h + 3h + 4 + 7g$
$= 2 + 12g - h$

ALWAYS WRITE TERMS IN ORDER FROM HIGHEST TO LOWEST EXPONENT

(25) $3ab + 6ab$
$= 9ab$

(27) $3ab^2 + 2ab^2$
$= 5ab^2$

(29) $1 + 6(m+2)$
$= 1 + 6m + 12$
$= 13 + 6m$

(31) $2 + 3x - 4y + 11y - 6 - 9x$
$= -6x + 7y - 4$

(33) $3(x+2) + 5$
$= 3x + 6 + 5$
$= 3x + 11$

(35) $3r + 2(r-1)$
$= 3r + 2r - 2$
$= 5r - 2$

(37) $4 + 3(2x + 1)$
$= 4 + 6x + 3$
$= 6x + 7$

(39) $3(5c) - 15c^2 + c$
$= 15c - 15c^2 + c$
$= -15c^2 + 16c$

(41) $4(2x^3 + x^2) - 5x^2$
$= 8x^3 + 4x^2 - 5x^2$
$= 8x^3 - x^2$

(43) $(10+5r)13 + (11+6r)15$

$= 130 + 65r + 165 + 90r$

$= 155r + 295$

(45) $4(m+n) + 3(m+n)$

$= 4m + 4n + 3m + 3n$

$= 7m + 7n$

(47) $2(x^2-y) + 4(x^2-y)$

$= 2x^2 - 2y + 4x^2 - 4y$

$= 6x^2 - 6y$

(49) $2(t-t^2) + 5(t+t^2)$

$= 2t - 2t^2 + 5t + 5t^2$

$= 3t^2 + 7t$

(51) $3(x^2y + xy^2) + 6(x^2y^2 - 2xy^2)$

$= 3x^2y + 3xy^2 + 6x^2y^2 - 12xy^2$

$= 6x^2y^2 + 3x^2y - 9xy^2$

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

$= 2a + b + 2a - b$

$= 4a$