

Solutions to WS 9.2 - More Combining Like Terms, #2-54 even

$$\textcircled{2} r^2st - 12r^2st \Rightarrow \text{like}$$

$$\textcircled{8} 7y - 6 \Rightarrow \text{unlike}$$

$$\textcircled{4} 8m^2n^2 + 3mn^2 \Rightarrow \text{unlike}$$

$$\textcircled{10} x - x^2 \Rightarrow \text{unlike}$$

$$\textcircled{6} 8a + 3a \Rightarrow \text{like}$$

$$\textcircled{12} b + 3b \Rightarrow \text{like}$$

$$\textcircled{14} 2y + 8y = 10y$$

$$\textcircled{16} -2q - 5q = -7q$$

$$\textcircled{18} 8 + 3x + 7 = 15 + 3x$$

$$\textcircled{20} 12m^3 - 9m^3 = 3m^3$$

$$\textcircled{22} 3y^3 + 2y^3 + 8y - y = 5y^3 + 7y$$

$$\textcircled{24} -1 - 4x + 6y + 3 - 4x - 6y = 2 - 8x$$

$$\textcircled{26} 10rs + 13rs = 23rs$$

$$\textcircled{28} 6m^2n + 3m^2n = 9m^2n$$

$$\begin{aligned} \textcircled{30} -2 + 3(2b - 8) + 4b \\ = -2 + 6b - 24 + 4b \\ = 10b - 26 \end{aligned}$$

$$\textcircled{32} 6m - 19 + 27 - 11n + 4m - 11n = 10m - 22n + 8$$

$$\begin{aligned} \textcircled{34} 2(x+1) + 3 \\ = 2x + 2 + 3 \\ = 2x + 5 \end{aligned}$$

$$\begin{aligned} \textcircled{36} 6s + 3(s-2) \\ = 6s + 3s - 6 \\ = 9s - 6 \end{aligned}$$

$$\begin{aligned} \textcircled{38} 3 + 4(3x+2) \\ = 3 + 12x + 8 \\ = 12x + 11 \end{aligned}$$

$$\begin{aligned} \textcircled{40} 9b^2 + 4(5b) - 8b^2 \\ = 9b^2 + 20b - 8b^2 \\ = b^2 + 20b \end{aligned}$$

$$\begin{aligned} \textcircled{42} -8b^3 + 5(b^2 - 4b^3) \\ = -8b^3 + 5b^2 - 20b^3 \\ = -28b^3 + 5b^2 \end{aligned}$$

$$\begin{aligned} (44) \quad & (6p - 22)5 + (7p - 25)4 \\ & = 30p - 110 + 28p - 100 \\ & = \underline{58p - 210} \end{aligned}$$

$$\begin{aligned} (46) \quad & 6(a+b) + 7(a+b) \\ & = 6a + 6b + 7a + 7b \\ & = \underline{13a + 13b} \end{aligned}$$

$$\begin{aligned} (48) \quad & 7(g^3 - h) + 3(g^3 - h) \\ & = 7g^3 - 7h + 3g^3 - 3h \\ & = \underline{10g^3 - 10h} \end{aligned}$$

$$\begin{aligned} (50) \quad & 5(b^2 + b) + 8(b^2 - b) \\ & = 5b^2 + 5b + 8b^2 - 8b \\ & = \underline{13b^2 - 3b} \end{aligned}$$

$$\begin{aligned} (52) \quad & 7(3mn - mn^2) + 5(mn^2 - m^2n) \\ & = 21mn - 7mn^2 + 5mn^2 - 5m^2n \\ & = \underline{21mn - 2mn^2 - 5m^2n} \end{aligned}$$

$$\begin{aligned} (54) \quad & \frac{1}{4}(8v + 4w) + \frac{1}{2}(10w - 12v) \\ & = 2v + w + 5w - 6v \\ & = \underline{-4v + 6w} \end{aligned}$$