

Distributive Property

Simplify using the distributive property.

$$w(4w + 2) + 3w$$

$$12h - 2h(-8h - 5)$$

$$-t(2t + 3) + 6t$$

$$3x - 4x(-7x + 9y - 2)$$

$$2t(-3t + 5) - 5t$$

$$-7w(-5 - 4y - 2w) - 10w^2$$

$$-3z(-4p + 6z) + 7p$$

$$4(7n - 9p - 3) + 4p$$

$$10 + 5(6 + 7p)$$

$$5t^2 - 8t(2t + 4q)$$

Distributive Property

Simplify using the distributive property.

$$\begin{aligned}w(4w + 2) + 3w \\= 4w^2 + 2w + 3w \\= 4w^2 + 5w\end{aligned}$$

$$\begin{aligned}-t(2t + 3) + 6t \\= -2t^2 - 3t + 6t \\= -2t^2 + 3t\end{aligned}$$

$$\begin{aligned}2t(-3t + 5) - 5t \\= -6t^2 + 10t - 5t \\= -6t^2 + 5t\end{aligned}$$

$$\begin{aligned}-3z(-4p + 6z) + 7p \\= 12zp - 18z^2 + 7p\end{aligned}$$

$$\begin{aligned}10 + 5(6 + 7p) \\= 10 + 30 + 35p \\= 40 + 35p\end{aligned}$$

$$\begin{aligned}12h - 2h(-8h - 5) \\= 12h + 16h^2 + 10h \\= 22h + 16h^2\end{aligned}$$

$$\begin{aligned}3x - 4x(-7x + 9y - 2) \\= 3x + 28x^2 - 36xy + 8x \\= 28x^2 - 36xy + 11x\end{aligned}$$

$$\begin{aligned}-7w(-5 - 4y - 2w) - 10w^2 \\= 35w + 28wy + 14w^2 - 10w^2 \\= 35w + 28wy + 4w^2\end{aligned}$$

$$\begin{aligned}4(7n - 9p - 3) + 4p \\= 28n - 36p - 12 + 4p \\= 28n - 32p - 12\end{aligned}$$

$$\begin{aligned}5t^2 - 8t(2t + 4q) \\= 5t^2 - 16t^2 - 32qt \\= -11t^2 - 32qt\end{aligned}$$