

## Combine Like Terms

Simplify by combining like terms.

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

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

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

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

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

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

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

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

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

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

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Simplify by combining like terms.

$$\begin{aligned} &2w(3w + 2) + 3w \\ &= 6w^2 + 4w + 3w \\ &= 6w^2 + 7w \end{aligned}$$

$$\begin{aligned} &-p(2p + 3) - 6p \\ &= -2p^2 - 3p - 6p \\ &= -2p^2 - 9p \end{aligned}$$

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

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

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

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

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

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

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

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