



Check Up

1. If possible, simplify each of the following expressions.

a. $12y - y^2 + 3y$

b. $x - (2x + 3)$

c. $2xy + 3y^2 - 4x^2 - 7xy$



Compare your answers.

1. If possible, simplify each of the following expressions.

a. $12y - y^2 + 3y$

$$\begin{aligned} 12y - y^2 + 3y &= 12y + 3y - y^2 \\ &= (12 + 3)y - y^2 \\ &= 15y - y^2 \end{aligned}$$

b. $x - (2x + 3)$

$$\begin{aligned} x - (2x + 3) &= x - 2x - 3 \\ &= (1 - 2)x - 3 \\ &= -x - 3 \end{aligned}$$

c. $2xy + 3y^2 - 4x^2 - 7xy$

$$\begin{aligned} 2xy + 3y^2 - 4x^2 - 7xy &= 2xy - 7xy + 3y^2 - 4x^2 \\ &= (2 - 7)xy + 3y^2 - 4x^2 \\ &= -5xy + 3y^2 - 4x^2 \end{aligned}$$