

Solutions

2.1 Add coefficients $3+4$.

2.2 Distribute 2 to both terms; $2 \times 3 = 6$.

2.3 The cross terms are $3x+2x=5x$.

3.1 False. At $x=1, y=2$, $3x+4y=11$, while $7xy=14$. The terms have different variable parts and cannot be collected as like terms.

Local review guidance: show the chosen method; give the checked result; explain the condition or failed shortcut. This is authored classroom guidance.