

Solutions

2.1 $2a=2$, so $a = 1$.

2.2 $25+10=35$.

2.3 $1 \times \sqrt{2} \times \sqrt{2} = 2$.

3.1 False. For n^2 the terms 1,4,9 have first differences 3,5 and second difference 2. The coefficient is 1, half the constant second difference.

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