

## Solutions

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**2.1**  $-3+2=-1$ .

**2.2** Translate gives  $x=5$ ; reflect gives  $-5$ .

**2.3**  $x$  becomes  $-x$ , then  $4-(-x)=x+4$ .

**3.1** False. Reflect  $(3,2)$  in the  $y$ -axis then translate by  $(2,1)$  to get  $(-1,3)$ . Translate first then reflect to get  $(-5,3)$ .

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