

Solutions

2.1 5 is allowed; after factor cancellation, $F(5)=5+3=8$.

2.2 $1/2+2/4=1$, agreeing with $(3x-1)/(x^2-1)$.

2.3 The only reduced-equation candidate is 3; the original denominator is zero there.

3.1 False. $(x^2-1)/(x-1)=x+1$ only for $x \neq 1$. At $x=1$ the original expression is $0/0$ and remains undefined after simplification.

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