1. 060727b, P.I. A2.A.16

If $f(x)=\frac{3x^2-27}{18x+30}$ and $g(x)=\frac{x^2-7x+12}{3x^2-7x-20}$, find $f(x)\div g(x)$ for all values of x for which the expression is defined and express your answer in simplest form.

[4] $\frac{x+3}{2}$, and appropriate work is shown.

[3] Appropriate work is shown, but one computational, factoring, or simplification error is made.

[2] Appropriate work is shown, but two or more computational, factoring, or simplification errors are made.

or [2] Appropriate work is shown, but one conceptual error is made, such as failing to multiply by the reciprocal of g(x) or trying to solve for x.

[1] Appropriate work is shown, but one conceptual error and one computational, factoring, or simplification error are made.

or [1] $\frac{x+3}{2}$, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

[1]