Smplifying and Substituting (H)

Pre-Intervention Assessment

Name: _____

Class: _____

Date: _____

Question	Objective	RAG
1	Expand quadratics	
2	Factorise quadratics	
3	Simplify algebraic fractions	
4	Expand cubics	
5	Use inverse and composite functions	

1. Expand and simplify $(x + 4)(x + 6)$

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2. Factorise $x^2 - x - 20$

…………………………………

3. Simplify fully $\dfrac{2x^2+3x+1}{x^2-3x-4}$

……………………………………………

4. Show that
$$(x - 1)(x + 2)(x - 4) = x^3 - 3x^2 - 6x + 8$$
for all values of x.

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5.   The function f is such that
   $f(x) = 4x - 1$
   Find $f^{-1}(x)$

[Glue here]