



Simplifying and Substituting (H)

Post-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 $(x + 5)(x + 9)$

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2. Factorise $x^2 + 11x + 30$

3. Simplify fully $\frac{x^2 - 8x + 15}{2x^2 - 7x - 15}$

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4. Show that
 $(x + 1)(x + 2)(x + 5) = x^3 + 8x^2 + 17x + 10$
for all values of x .

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5. The functions f and g are such that
 $f(x) = 1 - 5x$ and $g(x) = 1 + 5x$
Show that $gf(1) = -19$

[Glue here]