Forming and Solving Equations (H)

Pre-Intervention Assessment

Name: _____

Class: _____

Date: _____

Question	Objective	RAG
1	Use iterations	
2	Solve quadratic equations	
3	Solve algebraic fractions	
4	Solve non-linear simultaneous equations	

1. An approximate solution to an equation is found using this iterative process:

$x_{n+1} = \frac{(x_n)^3 - 3}{8}$ and $x_1 = 1$

(a) Work out the values of x_2 and x_3

x_2 = ...

x_3 = ...

(b) Work out the solution to 6 decimal places.

.....

2. Solve $x^2 + x + 11 = 14$

Give your solutions correct to 3 significant figures.

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3. Solve $\frac{5(2x+1)}{3} = 4x + 7$

x = ...

4. Solve algebraically the simultaneous equations

$x^2 + y^2 = 25$

$y - 2x = 5$

.....

[Glue here]