Quadratic and Simultaneous Equations

Maths

Statement Code no: 16

Student:

Class:

At Junior Certificate level the student can:

Solve quadratic and simultaneous equations and simplify algebraic fractions

	Date Commenced: 00/00/00 Date Awarde	d: 00/00/00
Learning Targets - This has been demonstrated by your ability to:		
1	Add and subtract algebraic fractions eg $\frac{x}{4} + \frac{x}{3} = \frac{2x+1}{3} - \frac{2x-3}{4}$	000
2	Solve equations containing algebraic fractions eg $\frac{x-3}{2} = 4$ $\frac{x-1}{2} = \frac{2x+1}{5}$	$\bigcirc \bigcirc \bigcirc$
3	Simplify algebraic fractions eg $\frac{5x^2}{10x}$ $\frac{12xy^2}{3xy}$	$\bigcirc \bigcirc \bigcirc$
4	Multiply algebraic fractions and simplify eg $\frac{3x}{y^2} \times \frac{y}{3}$	$\bigcirc \bigcirc \bigcirc$
5	Divide algebraic fractions and simplify eg $\frac{2X^2}{3} \div \frac{4x}{9}$	
6	Solve quadratic equations eg $x^2 + 5x + 6 = 0$ $x^2 - 16x + 48 = 0$ $x^2 - 81 = 0$	000
7 8	Use quadratic equations to solve problems Solve simultaneous equations	$\bigcirc \bigcirc \bigcirc \bigcirc$
	eg $x + y = 9$ $2x - 5y = 1$ x - y = 3 $5x + 3y = 18$	
9	Use simultaneous equations to solve problems	$\bigcirc \bigcirc \bigcirc$