Quadratic and Simultaneous Equations

Maths

Statement Code no: 16

Student:	Class:
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At Junior Certificate level the student can:

Solve quadratic and simultaneous equations and simplify algebraic fractions

Date Commenced: OO/OO/OO Date Aw	varded: 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 $\frac{x-3}{2} = 4$ $\frac{x-1}{2} = \frac{2x+1}{5}$	000				
3 Simplify algebraic fractions $eg = \frac{5X^2}{10x} = \frac{12Xy^2}{3xy}$	000				
4 Multiply algebraic fractions and simplify $eg = \frac{3x}{v^2} \times \frac{y}{3}$	000				
5 Divide algebraic fractions and simplify $eg = \frac{2X^2}{3} \div \frac{4x}{9}$					
6 Solve quadratic equations	000				
eg $x^2 + 5x + 6 = 0$ $x^2 - 16x + 48 = 0$ $x^2 - 81 = 0$ 7 Use quadratic equations to solve problems	000				
8 Solve simultaneous equations eq $x + y = 9$ $2x - 5y = 1$	000				
x + y = 9 $2x - 3y = 1x - y = 3$ $5x + 3y = 18$					
9 Use simultaneous equations to solve problems	000				

Cothromóidí Cearnacha agus Comhchothromóidí

Matamaitic

Cód Ráitis Uimhir 16

Dalta:	Rang:
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Ag leibhéal an Teastais Shóisearaigh tá mé ábalta:

Cothromóidí cearnacha agus comhchothromóidí a réiteach agus codáin ailgéabracha a shimpliú

	Dáta Tosaithe:		Dáta Bronnta:	00/00/00
S	priocanna Foghlama atá le	baint aı	mach agat:	
1	Suimigh agus dealaigh codáin ailgéabracha eg $\frac{x}{4} + \frac{x}{3} = \frac{2x+1}{3} - \frac{2x-3}{4}$			000
2	Réitigh cothromóidí ina bhfuil codáin ailgéabrac eg $\frac{x-3}{2} = 4$ $\frac{x-1}{2} = \frac{2x+1}{5}$	cha		000
3	Simpligh codáin ailgéabracha eg $\frac{5x^2}{10x}$ $\frac{12xy^2}{3xy}$			000
4	Iolraigh codáin ailgéabracha agus simpligh eg $\frac{3x}{\sqrt{2}} \times \frac{y}{3}$			000
5	Roinn codáin ailgéabracha agus simpligh eg $\frac{2x^2}{3}$ $\frac{4x}{9}$			000
6	Réitigh cothromóidí cearnacha eg $x^2 + 5x + 6 = 0$ $x^2 - 16x + 48 = 0$ $x^2 - 81 = 0$			000
7	Úsáid cothromóidí cearnacha chun fadhbanna a	réiteach		
8	Réitigh comhchothromóidí eg $x + y = 9$ $2x - 5y = 1$ x - y = 3 $5x + 3y = 18$			000
9	Úsáid comhchothromóidí chun fadhbanna a réit	each		000

Obair Tosaithe	0 00	Obair idir lámha	Obair Críochnaithe	