Algebra: Quadratics, Rearranging Formulae and Identities Non-Calculator 20 minute test 2

Answer	all questions.	
1	Rearrange $d = 3c + 12$ to make <i>c</i> the subject.	[2 marks]
	Answer	-
2	Simplify fully $(2xy)^3 \times 5x^5y^3$	[2 marks]
	Answer	-
3	To get the expression in each brick, add together the two expressions it.	directly below
	Complete this algebra pyramid.	[4 marks]
	$17a^2 + h^2$	



[2 marks]

		Answer	
5	(a)	Expand $(y - 5)(y - 9)$	[2 marks]
		Answer	
5	(b)	Hence or otherwise, simplify $(\sqrt{2}-5)(\sqrt{2}-9)$.	
		Write your answer in terms of $\sqrt{2}$.	[2 marks]
		Answer	
6		A teacher uses the following formula to work out how long it takes to ma (<i>T</i> minutes):	k homework
		T = 12h + 5	
		where h is number of pieces of homework.	
		Work out the time taken in minutes to mark 30 pieces of homework.	[2 marks]
		Answer	ninutes

Rearrange $x^2 = h^2 - y^2$ to make <i>h</i> the subject.	[2 marks]
Answer	
Show that $(3x + 5)(x - 1) - (2x + 3)(x - 1) \equiv (x - 1)(x + 2)$	[3 marks]
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