SE-Forming an equation/solving quads & quad formula

Oct 04 Paper 4	
Maria walks 10 kilometres to a waterfall at an average speed of x kilometres per hour	•

		(a)	Write down, in terms of x , the time taken in hours.	[1]
		((b)	Maria returns from the waterfall but this time she walks the 10 kilometres at an average space $(x + 1)$ kilometres per hour. The time of the return journey is 30 minutes less than the time of the	peed of the first
				journey. Write down an equation in x and show that it simplifies to $x^2 + x - 20 = 0$.	[4]
		((c)	Solve the equation $x^2 + x - 20 = 0$.	[2]
		((d)	Find the time Maria takes to walk to the waterfall.	[2]
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		6	(a)	On 1 st January 2000, Ashraf was x years old. Bukki was 5 years older than Ashraf and Claude was twice as old as Ashraf.	
				(i) Write down in terms of x, the ages of Bukki and Claude on 1st January 2000.	[2]
				(ii) Write down in terms of x , the ages of Ashraf, Bukki and Claude on 1st January 2002.	[1
				(iii) The product of Claude's age and Ashraf's age on 1st January 2002 is the same as the	square o
				Bukki's age on 1st January 2000. Write down an equation in x and show that it simplifies to $x^2 - 4x - 21 = 0$.	[4
				(iv) Solve the equation $x^2 - 4x - 21 = 0$.	[2
				(v) How old was Claude on 1st January 2002?	[]
			(b	Claude's height, h metres, is one of the solutions of $h^2 + 8h - 17 = 0$.	
				(i) Solve the equation $h^2 + 8h - 17 = 0$.	
				Show all your working and give your answers correct to 2 decimal places.	[4
				(ii) Write down Claude's height, to the nearest centimetre.	[1
		(Oct	t 05 Paper 4	
	8	(a)	(i)	The cost of a book is \$x. Write down an expression in terms of x for the number of these books which are bought for \$40.	[1]
			(ii	The number of books which are bought for \$40 is now one less than before.	C 43
				Write down an equation in x and show that it simplifies to $x^2 + 2x - 80 = 0$.	[4]
			(iii	i) Solve the equation $x^2 + 2x - 80 = 0$.	[2]
			(iv	y) Find the original cost of one book.	[1]
		(b	Ć	Magazines cost m each and newspapers cost n each. One magazine costs 2.55 more than one newspaper. The cost of two magazines is the same as the cost of five newspapers.	
			((i) Write down two equations in m and n to show this information.	[2]
			(i	ii) Find the values of m and n.	[3]