June 2013 (R) MA - C1 PMT

ux	(4)
$\frac{\lambda y}{\lambda x} = 3(x^2) + 4(x^2) + \emptyset$ $= 3x^2 + 4$	
$\frac{1}{4x} = 3(3^2) + 4$	
z 27+4	
= 31	
	Q
(То	tal 4 marks)















PMT Leave blank 7. Each year, Abbie pays into a savings scheme. In the first year she pays in £500. Her payments then increase by £200 each year so that she pays £700 in the second year, £900 in the third year and so on. (a) Find out how much Abbie pays into the savings scheme in the tenth year. (2)Abbie pays into the scheme for n years until she has paid in a total of £67200. (b) Show that $n^2 + 4n - 24 \times 28 = 0$ (5) (c) Hence find the number of years that Abbie pays into the savings scheme. (2)a) Un = a + (n-1) d Quote the formula for Method Marks a=1500, n=10, d=1200 U10: 500 + 9(200) U.6: \$2300 b) $S_n = \frac{1}{2} n [2a + (n-1)d]$ $S_{n=\frac{1}{2}67,200}$, $a=\frac{1}{200}$, $d=\frac{1}{200}$ 67,200= 500n + 100n (n-1) Plug in Values 67200: 500n+100n²-100n ' expord $100n^{2} + 400n - 67200 = 0$ Rearrange $n^2 + 4n - 672 = 0$ 0 - 100 = 0 24×28: 500+190+2 = 672 672=24×28 $h^{2} + 4n - (24 \times 28) = 0$ question format 14

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