15	(a)	c = 1.14	B1	3.3	
			[1]		
15	(b)	1.20 = 4a + 2b + 1.14 oe 1.25 = 16a + 4b + 1.14 oe	M1	3.3	both equations. FT <i>their c</i>
		a = -0.00125, b = 0.0325	A1	1.1	Fractional equivalents are $a = -\frac{1}{800}$ and $b = \frac{13}{400}$ Equivalents in standard form is acceptable
			[2]		
15	(c)	$1.29 = 1.14 + 0.0325t - 0.00125t^2$	M1	3.1b	FT their a,b,c (Can be $>$ etc)
		t = 6 and 20	A1	3.4	
		$6 \le t \le 20$	A1	3.5a	Set notation such as $t \in [6, 20]$ is fine but must not be soft brackets $t \ge 6$ and $t \le 20$ or $t \ge 6 \cap t \le 20$ but NOT $t \ge 6$, $t \le 20$
			[3]		

	Question	Answer	Marks	AO	Guidance
15	(d)	It will eventually predict a <u>negative</u> exchange rate oe (will fall below zero etc)	B1	3.5a	'Exchange rate tends to zero' is B0 Must mention the variable 'exchange rate' Underlined words needed
			[1]		