Question	Working	Answer	Mark	Notes
21 (a)	Factorising numerator as $(5x + 4)(2x + 3)$		3	M1
	Factorising denominator as $(2x + 3)(2x – 3)$			M1
		$\frac{5x+4}{2x-3}$		A1
(b)	$(8^{5y} =) 2^{15y}$ or $(4^n =) 2^{2n}$ or 2^{5y+2}		4	M1
	$2^{5y+2} = 2^{15y-2n}$ oe			M1 e.g. $2^{2n} = 2^{15y-5y-2}$
	$5y + 2 = 15y – 2n$ oe			M1 Correct equation using the powers
		$n = 5y − 1$		A1 Dep on M2 (accept $5y – 1$)
				Total 7 marks

22	$(2865 =) \frac{30}{2}(2 \times -6 + 29d)$		4	M1 Correct expression for sum of 30 terms
	$d = 7$			A1 Correct value for d
	$-6 + 8 \times$ "7" or (nth term =) $-6 +$ "7"$(n – 1)$			M1 ft their d. Dep on M1
		50		A1
				Total 4 marks