Section A

			uon A	
1	(a)	(N = 0·5757) 100N = 57·5757 Subtract to give 99N = 57	M1 A1	or 100 × 0·5757 – 0·5757 = 57 Must mention subtract or show both lines of proof.
	(b)	19 330	2	M1: $\frac{57}{990}$ or $\frac{5.7}{99}$ or their fraction cancelled to lowest terms or 1000N = 57.57 and $10N = .5757$
		Annual Control of the	4	
2		150°, 390°, 510°	2	W1: 1 correct
4	(a)	$\frac{x+5}{(x-1)(x+1)}$ (o.e.); mark final ans	3	M2: $\frac{3x+3-2x+2}{(x-1)(x+1)}$ (may be two terms) must include denominator or M1: $\frac{3(x+1)-2(x-1)}{(x-1)(x+1)}$; s.o.i.
	(b)	$\frac{x+3}{x+4}$ mark final ans	3	M1: $(x-3)(x+3)$ seen M1: $(x-3)(x+4)$ seen
		THE HEED IN SECTION ISSUED WAS AND STREET	6	
		OC is common OA = OB or AC = BC with reason 3 rd side with valid reason and SSS	M1 M1 A1	Iines must have 2 letters After first M1 only, or 0: SC1: OA = OB and AC = BC (but not 'therefore AC = BC') and SSS
	1		3	
5	(a) (i)	2a	1	Condone + 0b
	(ii)	3b - 3a	1	M1: $\overrightarrow{OD} = 2b$ or – 'their (i)' seen
	(iii)	2b − 2a; condone unsimplified	2	After (i) 6a, (ii) 9b - 9a, allow: SC2 : (iii) 6b - 6a or 2a - 2b, following 3a - 3b
	(b)	AB is parallel to CD AB = 1.5 × CD (o.e.), or f.t. from (ii) & (iii)	1 1	both must f.t. from (ii) and (iii) involving <i>a</i> and <i>b</i>
			6	
6	(a)	y = f(2x)	2	$SC1: y = f(\frac{x}{2})$
	(b)	y = f(x+2)	2	SC1 : $y = f(x-2)$
	 	T	4	
			25	