Question			Answer	Marks	Part Marks and Guidance	
1	(a)		$x(x - 25)$ final answer	**1**		Condone $(x+0)(x-25)$
	(b)		$(x - 5)(x + 5)$ final answer	**1**		
	(c)		$x^2 - 15x - 250$ final answer	**2**	**B1** for three of x^2, $-25x$, [+]$10x$, -250	

2	**(a)**		$2x^2 + 3x - 5$ Final answer	3	**B2** for three of $2x^2$, (+)$5x$, $-2x$, -5 soi Or **B1** for two of $2x^2$, (+)$5x$, $-2x$, -5 soi	
	(b)		1 -2.5 or -5/2	1 1		
	(c)		$(x - 6)(x + 4)$ Final answer	2	**M1** for $(x \pm 6)(x \pm 4)$	Condone omission of final bracket

3	**(a)**		$5(x + 2)$ final answer	1		
	(b)	**(i)**	$x^3 - 5x$ final answer	2	**B1** for x^3 or $-5x$ seen	
		(ii)	$11x + 2$ final answer	3	**B1** for $3x + 6$ **B1** for $8x - 4$ After **0**, allow **SC1** for $11x$ seen in answer	

4	**(a)**		$10x - 3$	3	**Final answer** **B1** for $4x + 12$ soi **B1** for $6x - 15$ soi After **0**, then **SC1** for $10x + k$	
	(b)		$5x(y + 2)$	2	**Final answer** **B1** for $5(xy + 2x)$ or $x(5y + 10)$ seen Or **SC1** for $2x(2.5y + 5)$ or $10x(0.5y + 1)$ seen	Allow for **2** marks $(5x + 0)(y + 2)$ etc Allow for **1** mark $(x + 0)(5y + 10)$ Condone missing final bracket

5	**(a)**		$2(3x + 4)$ final answer	1	Condone missing final bracket	
	(b)	**(i)**	16	1		
		(ii)	7	1		
	(c)		$(x - 3)(x + 3)$ final answer	1	Condone missing final bracket	

6	**(a)**	(i) $\frac{8}{5}$ or 1.6 oe	**3**	**M2** for $5x = 8$ Or **M1** for one side of equation correct AND **M1** for final answer FT from *their* $ax = b$, provided $a \neq \pm 1$ Allow **B3** for correct answer given embedded as final answer	Allow **M1** for e.g. $3x = 8 - 2x$ E.g. $3 \times 1.6 + 7 = 15 - 2 \times 1.6$
		(ii)	**1**		**0** for embedded answer
		(iii) ± 5	**3**	**B2** for one solution Or **M1** for 25 or 5^2 seen or for $\sqrt{\frac{75}{3}}$ Or **B1** each for embedded solutions e.g. $3 \times 5^2 = 75$ as final answer	
	(b)	$8x^2 - 28x$ as final answer	**2**	**M1** for one term correct or for correct answer seen then spoilt by further 'simplification' or for $4(2x^2 - 7x)$	Condone $8x^2 + -28x$ for 2 marks **M0** for $x(8x - 28)$
	(c)	$2(3 + 4x)$	**1**		Condone missing final bracket
	(d)	$x - bx = 2a - 3$ oe $x(1 - b) = 2a - 3$ oe $[x =] \frac{2a-3}{1-b}$ or $\frac{3-2a}{b-1}$	**M2** **M1** **M1**	**M1** for one correct step in collection of terms For factorising, FT For division, FT *their* factored form; condone written with a division symbol (even without brackets) rather than as a fraction for final step	E.g. **M1** for $x = 2a - 3 + bx$ or for terms in x or $x^2 = 2a - 3$ or, at worst, e.g. $-b = 2a - 3$ For last two marks, no FT from too simple 'formulae' after their errors Mark best attempt, not a mixture

7	**(a)**	$12a^3$	**2**	Condone $12 \times a^3$ for **2** marks **B1** for $12\ [a^k]$,accept $k = 0$ **or B1** for $[k]a^3$ k not equal to 0 **or SC1** only for $12 + a^3$	so 12 only scores **B1** so a^3 only scores **B1**
	(b)	25	**2**	**M1** for $4 \times -2.5 \times -2.5$ or better soi **or** for 6.25 seen **or SC1** for answers of -25 or 100	
	(c)	$10x - 35$ [= 3] or $2x - 7 = 3/5$ $10x = 38$ or $2x = 7.6$ or FT [x =] 3.8 oe (accept 38/10 or better isw)	**B1** **M1FT** **M1FT**	For dealing with brackets correctly For getting to form $ax = b$; FT *their* wrong first step for $a \neq 0$ or 1 and $b \neq 0$ FT *their* $ax = b$ with $a \neq 0$ or 1 or b and $b \neq 0$ Allow **B3** for 3.8 www	Allow FT at division step isw – does not need to be evaluated If division step not shown accept answer for 2nd **M1** correct to 2 sf or better Allow correct embedded solution in original equation as final answer to score full marks i.e. $5(2 \times 3.8 - 7) =$
	(d)	$4x(3x + 2y)$	**2**	**M1** for $2(6x^2 + 4xy)$ or $4(3x^2 + 2xy)$ or $2x(6x + 4y)$ or $x(12x + 8y)$	Condone final bracket omitted Allow with '×' signs