Question			Answer	Marks	Part Marks and Guidance	
1			$9x - 22$ final answer	3	**B1** for $6x - 10$ seen **And B1** for $[+]3x - 12$ seen	
2			$55\sqrt{2}$	4	Or **B1** for $5\sqrt{2}$ or $40\sqrt{2}$ And **M1A1** for $\dfrac{30\sqrt{2}}{\sqrt{2}\sqrt{2}} = 15\sqrt{2}$	
3	(a)		$3x + 4y - 5$ final answer	3	**B2** for <u>two</u> of $3x$, $(+)\ 4y$, -5 **Or B1** for <u>one</u> of $3x$, $(+)\ 4y$, -5	
	(b)		$\dfrac{3x}{2y}$ final answer	2	**B1** for $\dfrac{3xy}{2y^2}$ or $\dfrac{15x}{10y}$ or $\dfrac{1.5x}{y}$ seen	
	(c)		$2x(2x + 5y)$ final answer	2	**B1** for $2(2x^2 + 5xy)$ or $x(4x + 10y)$ seen **Or SC1** for $4x(x + 2.5y)$ or $(2x + 0)(2x + 5y)$ seen	

4	(a)		$7x + 26$ final answer	3	**B1** for $10x + 14$ **And B1** for $-3x + 12$	
	(b)		$6x^2 – 5x – 4$ final answer	3	**B2** for <u>three</u> of $6x^2$, (+) $3x$, $– 8x$, $– 4$ **Or B1** for <u>two</u> of $6x^2$, (+) $3x$, $– 8x$, $– 4$	$– 5x$ implies (+) $3x$, $– 8x$

5			<u>Three</u> of $3×4$; $3×\sqrt{7}$; $4×\sqrt{7}$; $\sqrt{7}×\sqrt{7}$ oe	**M1**		
			$19 + 7\sqrt{7}$ final answer	**B1**		

6	**(a)**		$5a + 14$ as final answer	3	nfww **B2** for $5a ±$ other number or for other a term $+ 14$ Or **B1** for other answer involving $5a$ and/or 14 Or **M1** for $8a + 20$ or for $±3a ± 6$	eg **B1** for $5a = 14$
	(b)		$4y (3 + y)$ as final answer	2	**B1** for $4y(...)$ or $...(3 + y)$ or $4(3y + y^2)$ or $y(12 + 4y)$ or $2y(6 + 2y)$ Or **B1** for $4y (3 + y)$ seen then spoilt	

7	(a)		$7x$ final answer	2	**B1** for $\frac{7x}{1}$ or for $\frac{14x}{2}$ or $\frac{7x^2}{x}$ seen	
	(b)		$27y^2 - 18y + 20$ final answer	4	**B2** for $15y^2 - 10y$ Or **B1** for $15y^2$ or $- 10y$ AND **B1** for $12y^2 - 8y + 20$	
	(c)		$5(2x - 3)$ final answer	1		Condone omission of right-hand bracket
	(d)		± 4	3	**B2** for answer (+)4 or answer -4 or for $(\pm) \sqrt{16}$ seen or for $(x - 4)(x + 4)$ [=0] Or **M1** for $x^2 = 16$ Or for $x^2 - 16$ [=0]	

8			$6x + 2y + 30$ and $2x + 6y + 10$ **both** correctly found with diagrams and clear working	5	Ignore all arrangements other than the correct two
			$6x + 2y + 30$ and $2x + 6y + 10$ **both** correctly found with correct diagrams but with less clear or no working	4−3	**One** correct arrangement considered with diagram and clear working and correct formula found or **both** correct arrangements considered with diagrams and one correct formula but with little or wrong or no working or **both** correct formulae with no diagrams but with clear working
			Both correct arrangements considered with diagrams but with little or wrong or no working or **one** correct arrangement considered with diagram and correct formula but with little or wrong or no working or **both** correct formulae with no diagrams and little or wrong or no working	2−1	**One** correct arrangement considered with diagram but with little or wrong or no working or **one** correct formula with no diagram and little or wrong or no working
			No relevant comment	0	

9	(a)		$\dfrac{2y}{3}$	2	**B1** for $\dfrac{4y}{6}$ **or** $\dfrac{2xy}{3x}$ **or** 0.66[6…]*y* seen	
	(b)		$18x - 11$	3	**B1** for $6x - 3$ **And B1** for $12x - 8$ <u>After B0</u> **SC1** for $18x$ in answer	

10	(a)		$8x^2$ final answer	2	**B1** for $\dfrac{8x^3}{[1]x}$ **or** $\dfrac{40x^2}{5}$ **or** $\dfrac{8x^2}{1}$	
	(b)		$11x - 23$ final answer	3	**B1** for $3x - 3$ **B1** for $8x - 20$ After **0** allow **SC1** for $11x \pm n$ any $n \neq 0$ or for $ax - 23$ any $a \neq 0$	$11x + -23$ scores **B2**

11	(a		$x^3 - 3x^2 + [1]x$ final answer	3	**B2** for two of $x^3, - 3x^2, + [1]x$ seen Or **B1** for one of $x^3, - 3x^2, + [1]x$ seen	
	(b)		$2x - 9$ final answer	3	**B1** for $12x + 3$ seen **B1** for $- 10x - 12$ seen If **B0** scored, then **SC1** for answer $2x \pm k$, $k \neq 0$	Condone $- 10x + - 12$ seen
	(c)		$x^2 - 8x - 20$ final answer	2	**B1** for three of $x^2, - 10x, [+] 2x, - 20$ seen	