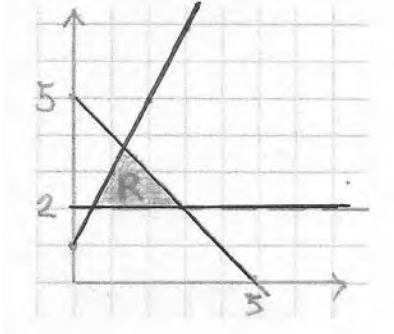


Question	Working	Answer	Mark	Notes	Sub-Total	Total
10	19.45 or 19.35 or 2.35 or 2.45		B1			3
	$(b =) 19.45 - 2 \times 2.35$		M1	Or for $UB_1 - 2 \times LB_2$ or $UB_1 = 2 \times LB_2 + b$ where $19.4 < UB_1 \leq 19.5$ & $2.3 \leq LB_2 < 2.4$		
		14.75	A1			
11	$3(x^3 + a) = 4(c - x^3)$ oe		M1			3
	$3x^3 + 4x^3 = 4c - 3a$ or $3a - 4c = -4x^3 - 3x^3$		M1	Collecting $x$ terms on one side and other terms on the opposite side		
		$\sqrt[3]{\frac{4c - 3a}{7}}$	A1	oe. Do not ISW <b>NB</b> A0 for $\pm \sqrt[3]{\frac{4c - 3a}{7}}$ $3\sqrt[3]{\frac{4c - 3a}{7}}$		
12	$5^{3k+4} = 125$		M1	Allow $\frac{750}{6}$		3
	$3k + 4 = 3$		M1	Dep first M1 Writing “125” as a power of 5 and equating powers, 0.33(0.33...)		
		$-\frac{1}{3}$	A1	cao		
13	$\left[\frac{BE^2}{9.6^2} = \right] \left(\frac{9}{16}\right) \text{ or } \left(\frac{27}{21+27}\right)$ oe		M1	For $\frac{9}{16}$ or $\frac{27}{21+27}$ <b>Alternate</b> $h = 10$ , $0.5BE \times x = 27$		3
	$[BE =] \sqrt{\frac{9}{16}} \times 9.6$		M1	<b>Alternate</b> $(9.6 + BE)(10 - x) = 42$		
		7.2	A1			

Question	Working	Answer	Mark	Notes	Sub-Total	Total
14 (a)(i) (ii) (iii)	$y = 2$		B1	correct line	1	
	$x + y = 5$		B1	correct line (condone incorrect labelling)	1	
	$y = 2x + 1$		B1	correct line	1	
(b)		<b>R</b> correctly placed	B1	Do not award if lines incorrect Ignore labelling of lines	1	4
15	$\frac{1}{5} \times \left( \frac{120}{5} \times 3 \right) (= 14.4(0))$		M1	or (Barry:) $\frac{3}{5} \times \frac{1}{5} (= \frac{3}{25})$		
	$0.35 \times \left( \frac{120}{5} \times 2 \right) (= 16.8(0))$		M1	or (Carlos:) $\frac{35}{100} \times \frac{2}{5} (= \frac{14}{100} = \frac{7}{50})$		
	$\frac{'14.4' + '16.8'}{120} = \frac{'31.2'}{120}$		M1	Dep on M2 or for $'\frac{3}{25}' + '\frac{7}{50}'$		
		$\frac{13}{50}$ or 0.26	A1			