24	(i)		$-10\mathbf{a}+2\mathbf{b}$	1	B1 or $2\mathbf{b}-10\mathbf{a}$ Must be simplified
	(ii)		$\frac{15}{2}\mathbf{a}+\frac{5}{2}\mathbf{b}$	1	B1 oe eg $7\frac{1}{2}\mathbf{a}+2\frac{1}{2}\mathbf{b}$ or $7.5\mathbf{a}+2.5\mathbf{b}$ Must be simplified
	(iii)	eg $\left(\overrightarrow{OR}="k"\overrightarrow{OP}=\right)"k"\left("\frac{15}{2}\mathbf{a}+\frac{5}{2}\mathbf{b}"\right)$ oe		4	M1 ft from part (ii) for $\overrightarrow{OR}$ $\overrightarrow{OP}$ must be in terms of **a** and **b** (lower case)
		eg $\left(\overrightarrow{OR}=\overrightarrow{OA}+\overrightarrow{AR}=\right)10\mathbf{a}+"\lambda"\left("-10\mathbf{a}+2\mathbf{b}"\right)\left(=\left(10-10"\lambda"\right)\mathbf{a}+2"\lambda"\mathbf{b}\right)$ oe or $\left(\overrightarrow{OR}=\overrightarrow{OQ}+\overrightarrow{QR}=\right)2\mathbf{b}-"\mu"\left("-10\mathbf{a}+2\mathbf{b}"\right)\left(=10"\mu"\mathbf{a}+\left(2-2"\mu"\right)\mathbf{b}\right)$ oe			M1 ft from part (i) for another path for $\overrightarrow{OR}$ $\overrightarrow{AQ}$ must be in terms of **a** and **b** (lower case)
		eg $\frac{15}{2}"k"=10-10"\lambda"$ oe **and** $\frac{5}{2}"k"=2"\lambda"$ oe or $"\lambda"=\frac{5}{8}$ oe or $\frac{5}{2}"k"=2-2"\mu"$ **and** $\frac{15}{2}"k"=10"\mu"$ oe or "*k*" = 0.5 oe			M1 for **correct** equations (not followed through equations)
		Correct answer scores full marks (unless from obvious incorrect working)	$\frac{15}{4}\mathbf{a}+\frac{5}{4}\mathbf{b}$		A1 oe eg $3\frac{3}{4}\mathbf{a}+1\frac{1}{4}\mathbf{b}$ or $3.75\mathbf{a}+1.25\mathbf{b}$
					Total 6 marks