21	$\overrightarrow{OP} = 4\mathbf{a} + 2\mathbf{a} + 8\mathbf{b} (= 6\mathbf{a} + 8\mathbf{b})$ oe OR $\overrightarrow{PO} = -6\mathbf{a} - 8\mathbf{b}$ oe or $\overrightarrow{AB} = 6\mathbf{b} - 4\mathbf{a}$ oe OR $\overrightarrow{BA} = 4\mathbf{a} - 6\mathbf{b}$ oe or $\overrightarrow{BP} = 6\mathbf{a} + 2\mathbf{b}$ oe OR $\overrightarrow{PB} = -6\mathbf{a} - 2\mathbf{b}$ oe		5	M1	oe for one of $\overrightarrow{OP}$ or $\overrightarrow{PO}$ or $\overrightarrow{AB}$ or $\overrightarrow{BA}$ or $\overrightarrow{BP}$ or $\overrightarrow{PB}$ (may be seen as part of another vector calculation)
	$\overrightarrow{OQ} = 4\mathbf{a} + \lambda(6\mathbf{b} - 4\mathbf{a})$ oe OR $6\mathbf{b} + \mu(4\mathbf{a} - 6\mathbf{b})$ oe OR $x(6\mathbf{a} + 8\mathbf{b})$ oe or $\overrightarrow{BQ} = \mu(4\mathbf{a} - 6\mathbf{b})$ oe OR $-6\mathbf{b} + \lambda(6\mathbf{a} + 8\mathbf{b})$ oe OR $4\mathbf{a} - 6\mathbf{b} + x(6\mathbf{b} - 4\mathbf{a})$ oe or $\overrightarrow{AQ} = y(6\mathbf{b} - 4\mathbf{a})$ oe OR $-4\mathbf{a} + x(6\mathbf{a} + 8\mathbf{b})$ oe OR $6\mathbf{b} - 4\mathbf{a} + \mu(4\mathbf{a} - 6\mathbf{b})$ oe OR $2\mathbf{a} + 8\mathbf{b} + m(6\mathbf{a} + 8\mathbf{b})$ oe or $\overrightarrow{QP} = \lambda(6\mathbf{a} + 8\mathbf{b})$ oe OR $\mu(4\mathbf{a} - 6\mathbf{b}) + 2\mathbf{a} + 8\mathbf{b}$ oe			M1	for one of $\overrightarrow{OQ}$ or $\overrightarrow{QO}$ or $\overrightarrow{BQ}$ or $\overrightarrow{QB}$ or $\overrightarrow{AQ}$ or $\overrightarrow{QA}$ or $\overrightarrow{QP}$ or $\overrightarrow{PQ}$
				M1	for a second correct expression for the same vector OR for two correct expressions for parallel vectors eg 2 of $\overrightarrow{OQ}$, $\overrightarrow{OP}$, $\overrightarrow{QP}$ oe AND using ratios to form an equation in one variable that can lead to a solution eg $\overrightarrow{OQ} = 4\mathbf{a} + k(6\mathbf{b} - 4\mathbf{a})$ and $\overrightarrow{QP} = 2\mathbf{a} + 8\mathbf{b} - k(6\mathbf{b} - 4\mathbf{a})$ and $\frac{4-4k}{2+4k} = \frac{6k}{8-6k}$
	eg $\lambda = \frac{8}{17}$ or $\mu = \frac{9}{17}$ or $AQ:QB = \frac{4x}{3} : \frac{3x}{2}$ oe			A1	oe
		8 : 9		A1	oe
					Total 5 marks