24	(a)	eg $\overrightarrow{AC} = \overrightarrow{AO} + \overrightarrow{OB} + \overrightarrow{BC}$ or eg $-4\mathbf{a} + 3\mathbf{b} + 2\mathbf{a} + \mathbf{b}$			2	M1	
		Correct answer scores full marks (unless from obvious incorrect working)		$4\mathbf{b} - 2\mathbf{a}$		A1	oe but must be simplified eg $-2\mathbf{a} + 4\mathbf{b}$, $2(2\mathbf{b} - \mathbf{a})$
	(b)	eg $\overrightarrow{OP} = 4\mathbf{a} + \frac{3}{5}"(4\mathbf{b} - 2\mathbf{a})"$ $(= \frac{14}{5}\mathbf{a} + \frac{12}{5}\mathbf{b}$ or $2.8\mathbf{a} + 2.4\mathbf{b})$ oe **or** eg $\overrightarrow{OP} = 3\mathbf{b} + 2\mathbf{a} + \mathbf{b} - \frac{2}{5}"(4\mathbf{b} - 2\mathbf{a})"(= \frac{14}{5}\mathbf{a} + \frac{12}{5}\mathbf{b})$ oe			4	M1ft	For $\overrightarrow{OP}$ (could be part of another vector equation) ft their $\overrightarrow{AC}$
		eg $\overrightarrow{OQ} = \lambda"(\frac{14}{5}\mathbf{a} + \frac{12}{5}\mathbf{b})"$ **or** eg $\overrightarrow{OQ} = 3\mathbf{b} + \mu(2\mathbf{a} + \mathbf{b})$ **or** eg $\overrightarrow{OQ} = 4\mathbf{b} + 2\mathbf{a} + \omega(2\mathbf{a} + \mathbf{b})$	eg $\overrightarrow{PQ} = k(2.8\mathbf{a} + 2.4\mathbf{b})$ **or** eg $\overrightarrow{PQ} = \frac{2}{5}(4\mathbf{b} - 2\mathbf{a}) + m(2\mathbf{a} + \mathbf{b})$			M1ft	ft their $\overrightarrow{AC}$ (This mark can be awarded without the previous mark awarded) a correct expression for $\overrightarrow{OQ}$ or $\overrightarrow{PQ}$ oe
		eg $\overrightarrow{OQ} = \lambda"(\frac{14}{5}\mathbf{a} + \frac{12}{5}\mathbf{b})"$ **and** eg $\overrightarrow{OQ} = 3\mathbf{b} + \mu(2\mathbf{a} + \mathbf{b})$ or $4\mathbf{b} + 2\mathbf{a} + \omega(2\mathbf{a} + \mathbf{b})$	eg $\overrightarrow{PQ} = k(2.8\mathbf{a} + 2.4\mathbf{b})$ **and** eg $\overrightarrow{PQ} = \frac{2}{5}(4\mathbf{b} - 2\mathbf{a}) + m(2\mathbf{a} + \mathbf{b})$			M1ft	ft their $\overrightarrow{AC}$ 2 correct expressions for $\overrightarrow{OQ}$ or $\overrightarrow{PQ}$ oe ft dep on previous M1
		working required		$\frac{42}{5}\mathbf{a} + \frac{36}{5}\mathbf{b}$		A1	oe dep on M2 $8.4\mathbf{a} + 7.2\mathbf{b}$
							Total 6 marks