

K.C.S.E 2004 MATHEMATICS PAPER 121/I MARKING SCHEME

SOLUTION	MARKS	ALTERNATIVE METHOD
1. $\frac{0.015 + 0.45 + 1.5}{4.9 \times 0.2 + 0.07}$ $= \frac{0.015 + 0.3 + 0.3}{0.98 + 0.07}$ $= \frac{0.315}{1.05}$ $= 0.3$	M1 M1 A1 2	for operations
2. $(180^\circ - 156^\circ)n = 360$ $24n = 360$ $n = \frac{360}{24}$ $= 15$	M1 A1 2	for 360 24
3. $(2a + b)(a - 2b)$ $(2a + b)(2a - b)$ $\frac{a - 2b}{2a - b}$	M1 M1 A1 3	for factorisation of num for factorisation of deno
4. $\underline{OB} - \underline{OA} = (4\mathbf{i} + \mathbf{j} - 3\mathbf{k}) - (3\mathbf{i} - 2\mathbf{j} + \mathbf{k})$ $= 4\mathbf{i} + \mathbf{j} - 3\mathbf{k} - 3\mathbf{i} + 2\mathbf{j} - \mathbf{k}$ $\underline{AB} = \mathbf{i} + 3\mathbf{j} - 4\mathbf{k}$ Accept column vectors $= \sqrt{1^2 + 3^2 + (-4)^2}$ $= \sqrt{1 + 9 + 16}$ $= \sqrt{26}$ $= 5.099$ $= 5.10$ to 2 d places	M1 A1 2	$(3\mathbf{i} - 2\mathbf{j} + \mathbf{k}) - (4\mathbf{i} - \mathbf{j} - 3\mathbf{k})$ $3\mathbf{i} - 2\mathbf{j} + \mathbf{k} - 4\mathbf{i} + \mathbf{j} + 3\mathbf{k}$ $\underline{BA} = -\mathbf{i} - 3\mathbf{j} + 4\mathbf{k}$ $\underline{BA} = \sqrt{(-1)^2 + (-3)^2 + 4^2}$ $= \sqrt{1 + 9 + 16}$ $= \sqrt{26}$ $= 5.099$ $= 5.10$ A1
5. $A = 10\mathbf{t} - 12$ $= 10 \times 2 - 12$ $= 8 \text{ ms}^{-2}$	M1 M1 A1 3	Sub of t = 2

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