

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

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

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**L Reisser**



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