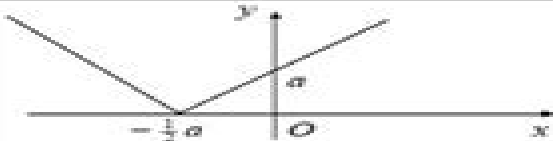
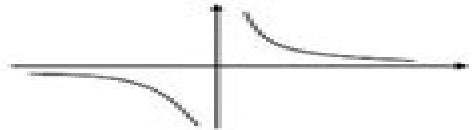


Question Number	Scheme	Marks
1.	<p>(a) <math>4^x = (2^x)^2 = u^2</math> or <math>2^{(x+1)} = 2 \cdot 2^x = 2u</math>, <math>\rightarrow u^2 - 2u - 15 (=0)</math></p> <p>(b) <math>u^2 - 2u - 15 = (u-5)(u+3)</math></p> <p><math>u = 5 \Rightarrow 2^x = 5 \Rightarrow x = \frac{\log 5}{\log 2} = 2.32</math></p> <p>[Ignore any other solution]</p>	<p>M1, A1 c.s.o (2)</p> <p>M1, A1</p> <p>M1, A1 (4)</p> <p>(6 marks)</p>
2.	<p>(a) <math>f(x) = 0.5e^x - 2x</math>  <math>f'(0) = 0.5</math>  Equation of tangent at A is: <math>y = f'(0)x + f(0)</math>, i.e. <math>y = 0.5x + 0.5</math></p> <p>(b) <math>f(x) = 0 \Rightarrow 2x = \frac{1}{2}e^x</math>  i.e. <math>4x = e^x</math>  <math>\Rightarrow x = \ln(4x)</math> *</p> <p>(c) <math>x_1 = \ln 8.6 = 2.1517622</math>  <math>x_2 = 2.1525814</math>  <math>x_3 = 2.152962... = 2.1530</math> (+dp) only</p>	<p>M1</p> <p>A1 c.s.o</p> <p>M1, A1 (4)</p> <p>M1</p> <p>M1</p> <p>A1 c.s.o (3)</p> <p>M1</p> <p>A1 c.a.o (2)</p> <p>(9 marks)</p>
3.	<p>(a) </p> <p>(b) </p> <p>(c) Meet where <math>\frac{1}{x} =  2x + a  \Rightarrow x 2x + a  - 1 = 0</math>; only one meet</p> <p>(d) <math>2x^2 + x - 1</math>  Attempt to solve; <math>x = \frac{1}{2}</math> (no other value)</p>	<p>V graph with 'vertex' on x-axis  <math>(-\frac{1}{2}a, (0))</math> and <math>((0), a)</math> seen</p> <p>A1 (2)</p> <p>Correct graph (could be separate)</p> <p>B1 (1)</p> <p>B1 (1)</p> <p>B1</p> <p>M1; A1 (3)</p> <p>(7 marks)</p>

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