$$\int f(x) = \begin{cases} lnx & ocx < 1 \\ ax^2 + b & 1 < x < 5 \end{cases}$$
is cont. and $f(z) = z$ then $f(x) = f(1)$

or $lin f(x) = lin f(x) = g(1)$

we have $a(1)^2 + b = ln(1)$

$$a + b = 0 \quad \cdots \quad 0$$

$$f(x) = a(2)^2 + b = z$$

$$\frac{4a + b = z}{1a + b = z} \quad \cdots \quad 0$$

$$\frac{a + b = o}{1a + b = z} \quad \cdots \quad 0$$

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Solve
$$y'(x) = \frac{z e^{2}(x)}{z \sqrt{1+2}f(x)}$$
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 $y'(z) = \frac{48}{8}$
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(a)
$$f(x) = (3x + 3x - 1)e^{x}$$

 $f'(x) = (4x + 3)e^{x} + e^{x}(2x^{3} + 3x - 1)$
 $= e^{x}(4x + 3 + 2x^{2} + 3x - 1)$
 $= e^{x}(3x^{3} + 7x + 2x)$
(b) $f'(x) = (1 + x^{3})(1 + x^{3})(1$

$$\lim_{x \to a} \frac{x - a}{|ax - |aa} = \frac{0}{0} \quad \text{Tal. Form}$$

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$$\lim_{x \to a} \left(\frac{e^{x}}{e^{x} - 1} - \frac{1}{x} \right) = 100 - 100$$

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$$\lim_{x \to a} \left(\frac{e^{x}}{e^{x} - 1} - \frac{1}{x} - \frac{1}{x} \right) = 100$$

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$$\lim_{x \to a} \left(\frac{e^{x}}{e^{x} - 1} - \frac{1}{x} - \frac{1}{x}$$

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