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$1 = r e^{ax} \cos(\theta) bx + c$  where we have used the formula  $\cos A \cos B - \sin A \sin B = \cos(A + B)$  Differentiating again and simplifying as before,  $y. 2 = r 2 e^{ax} \cos(\theta) 2\theta + bx + c$ . Similarly  $y. 3 = r 3 e^{ax} \cos(\theta) 3\theta + bx + c$ .  
Thus  $y r e^{ax} \cos(\theta) n bx + c = \theta + +$  Where  $r = \frac{a^2 + b^2}{2}$  and  $\theta = \tan^{-1}(b/a)$ .

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4 Engineering Mathematics-I Property (7): In a given determinant if two rows or column are identical for  $a = b$ , then  $(a - b)$  is a factor of the determinant. i.e

$$\begin{vmatrix} 222 & 12 & 111 \\ abc & abc & abc \\ a = b & 222 & 12 \\ 111 & abc & abc \end{vmatrix}$$

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1 open interval 0 and 1. And therefore, the prime is not equal to at any point in this interval 0 to 1. Another example we will discuss now the applicability of the Rolle's theorem for this function. is equal to square plus 1 in the interval 0 to 1 closed interval 0 to 1 and 3 minus. in the interval 1 to 2.

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to solve problems involving complex numbers and vectors. .



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