



Πρωπερμ:

1)
$$y = e^{x}$$
, $a = 0$
 $\int_{(k)}^{(k)}(x) = e^{x}$
 $\forall R \exists M \mid \int_{(k)}^{(k)}(x) \mid \leq e^{R} = M$

7. e. $\forall x \in e^{x} = \sum_{n=0}^{\infty} \frac{x^{n}}{n!}$

2) $y = \sin x$

$$|\int_{(k)}^{(k)}(x)| = \left[|\sin x| \right] \leq 1$$
 $\sin x = \sum_{k=0}^{\infty} \frac{(-1)^{k}}{(2k+1)!} \times 1$
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