Answer on Question #47033 – Math - Differential Calculus | Equations

If y=e^5x. Determine dy/dx.

Solution.

$\frac{dy}{dx} = \frac{de^{5x}}{dx} = e^{5x} * (5x)' = 5e^{5x}$. We applied chain rule of differentiation.

Answer: $5e^{5x}$.