

An Integral

September 2008

Integrate $\int e^{\sqrt[3]{x}} dx$. Be sure to show all steps.

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Speckled Eggs

Problem provided by Daryl Schwerdtfeger, Oklahoma City

Farmer Jones has 65 hens. If he had one more solid colored hen, then exactly one-third of his hens would be speckled. From years of experience, Farmer Jones knows that one-half of the speckled hens will lay speckled eggs and that each hen and a half will lay an egg and a half in a day and a half. After how many full days will Farmer Jones have 4 dozen speckled eggs to sell?