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**Chaos Contest Winners Announced**

**Atlanta, June 2010** – During the month of May, 2010 American 3B Scientific held a contest to 'Solve the Chaos Equation'. Everyone who entered was eligible for weekly drawings for a free [Chaos Pendulum](#). Those correctly solving the equation were also eligible for the Grand prize: \$1,300 in Science Lab equipment. The contest was a lot of fun; a big thank you to everyone who entered. The Grand Prize drawing was held June 2<sup>nd</sup> and congratulations to G. Johnson of Pullman, WA who will receive:

- [Deluxe Wimshurst Machine](#)
- [Student Force Table](#)
- [Pair or Resonance Tuning Forks](#)
- [Funhouse Mirror](#)
- [Variable Gravity Pendulum](#)
- [Kinetic Theory of Gas Model](#)
- ["Strangely Attractive" T-Shirt](#)

There were many interesting solutions "solve the Chaos equation". Here is the correct answer:

Q. Solve for  $N(t)$ . An unstable nucleus is created in a particle accelerator at a steady rate of  $F$  nuclei per second. Let  $N$  be the number of the nuclei at any given time. If  $N$  starts out at  $0$ , and the nuclei have a decay rate of  $R$ , find  $N$  as a function of time.

A.  $N(t) = (F/R)(1 - \exp(-Rt))$

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