## "The Lily Pond Parable" from EcoFuture

http://www.ecofuture.org/pop/facts/exponential70.html

- 1. If a pond lily population doubles every day, and it takes 30 days to completely cover a pond, on what day will the pond be <sup>1</sup>/<sub>4</sub> covered?
- 2. If a pond lily population doubles every day, and it takes 30 days to completely cover a pond, on what day will the pond be  $\frac{1}{2}$  covered?
- 3. Does the size of the pond make a difference?
- 4. What kind of environmental consequences can be expected as the 30th day approaches?
- 5. What will begin to happen at one minute past the 30th day?
- 6. At what point (what day) would preventative action become necessary to prevent unpleasant events? Explain your reasoning.

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