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Solving for "t"

Now that we know how linear and exponential models are different

- and how to interpret the parameters from each model

- we can use the models to our advantage.

We can use them, such that we can not only

0:00 / 6:31

1.0x

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Comprehension Check

1. The tadpole population (in thousands) in a small pond is decreasing according to the following equation:

$$Q(t) = 10(0.85)^t$$

(1/1 point)

1a. What is the initial population size (at t=0)? *(Report without commas.)*

10000 ✔ **Answer:** 10000

10000

(1/1 point)

1b. What is the annual decay rate as a percent? *(Do not write **%** sign.)*

15 ✔ **Answer:** 15

15

1c. How many tadpoles remain after **5 years** have passed? *(Report without commas and round to a whole number.)*

4437 ✔ **Answer:** 4437

4437

(1/1 point)

1d. How many years does it take for population to drop **below 1,000**? *(Round to 2 decimal places.)*

14.17 ✔ **Answer:** 14.17

14.17