**A**

In the use of the Library, web resources, and/or other materials, find the average weight in pounds of a type of bird of your choice. Use the rational exponent equation L = 2.43 \* W^0.3326 to estimate the wingspan L in feet of the bird that weighs W pounds (Rockswold, 2006). Include in your post the type of bird and the average weight and show the calculations necessary to find the approximate wingspan.

In case conversions are necessary, 16 oz is 1 pound; 1 kg = 2.2 pounds.

**B**

An application of a rational function is T = (AB)/(A+B), which gives the time, T, it takes for two workers to complete a particular task where A & B represent the time it would take for each individual worker to complete the identical task.

Estimate how long it takes you to complete a task of your choice (house cleaning, mowing, etc.) in a given week. Suppose that Joe is slower than you at the given task and takes twice as long as you do. If you work together, how long would it take you to complete the task?

Include the type of job, the time it takes you and Joe individually to complete the job, and the calculations needed to show how long it would take to complete the job if you worked together. Include units with your answer.

List the references to all sources.