**I. Who wants to be a Millionaire? – comparing linear and exponential functions**

1. Give the students the following Problem

 You’ve been offered to help the president with a job for 30 days and you have two different payment options to choose from

 1. One cent on the first day, doubling everyday for 30 days so that you have 2 cents on the second day, 4 cents of the third day, and so on for 30 days.

 2. Exactly $1,000,000.

2. Make a table, a graph of the data, and state the equation for each function.

3. Which would you choose and why?

4. Explain the differences between the two graphs