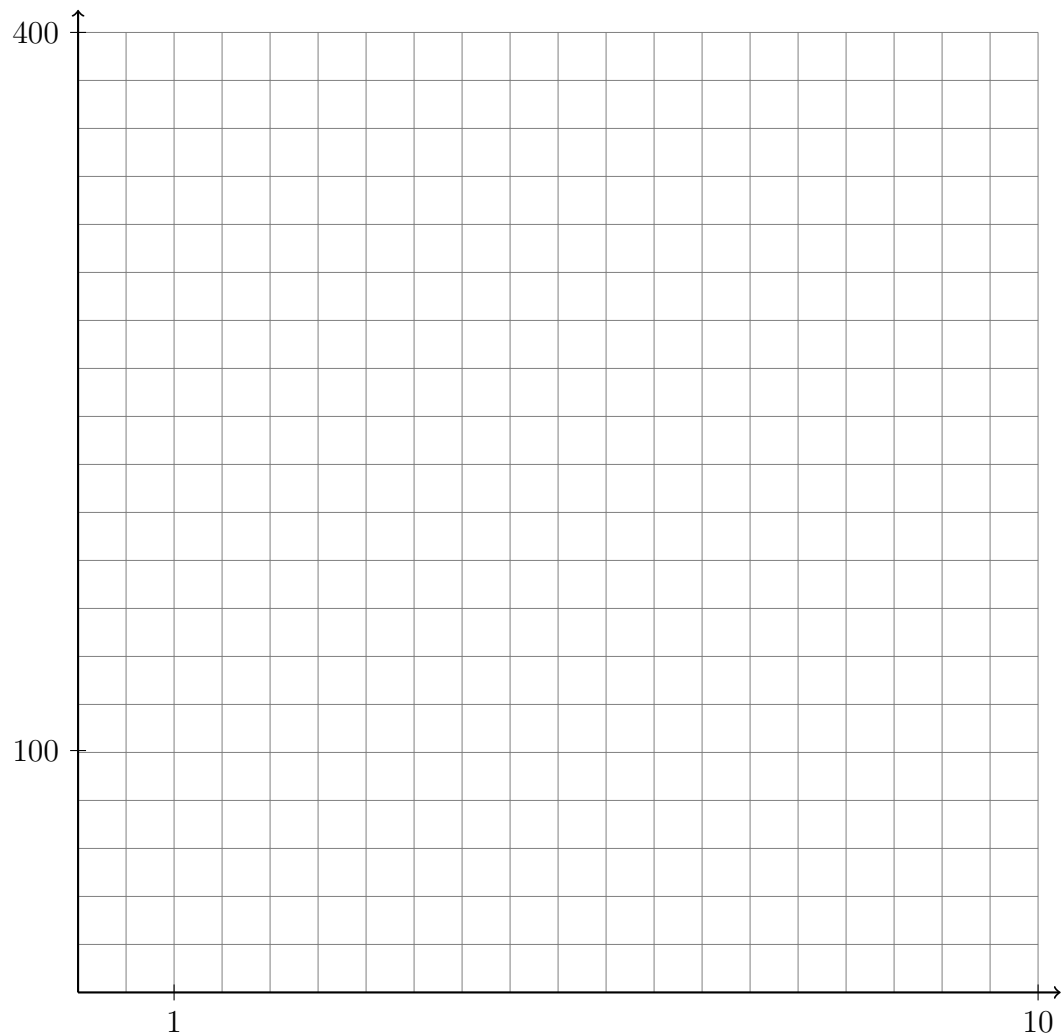**Open book, open note. Use the formula sheet.**
Answer in space provided. Show work.

Graphing exponential functions

1. Graph $f(x) = 400(.85)^{2x} - 6$ on the set of axes below.

2. Is the function an example of exponential growth or exponential decay?

   (a) Support your answer with evidence from the graph.

   (b) Give an algebraic argument to explain your answer.

Open book, open note. Use the formula sheet.
Answer in space provided. Show work.

Graphing exponential functions

1. Graph $g(x) = 15(1.15)^{2x} + 25$ on the set of axes below.

2. Is the function an example of exponential growth or exponential decay?

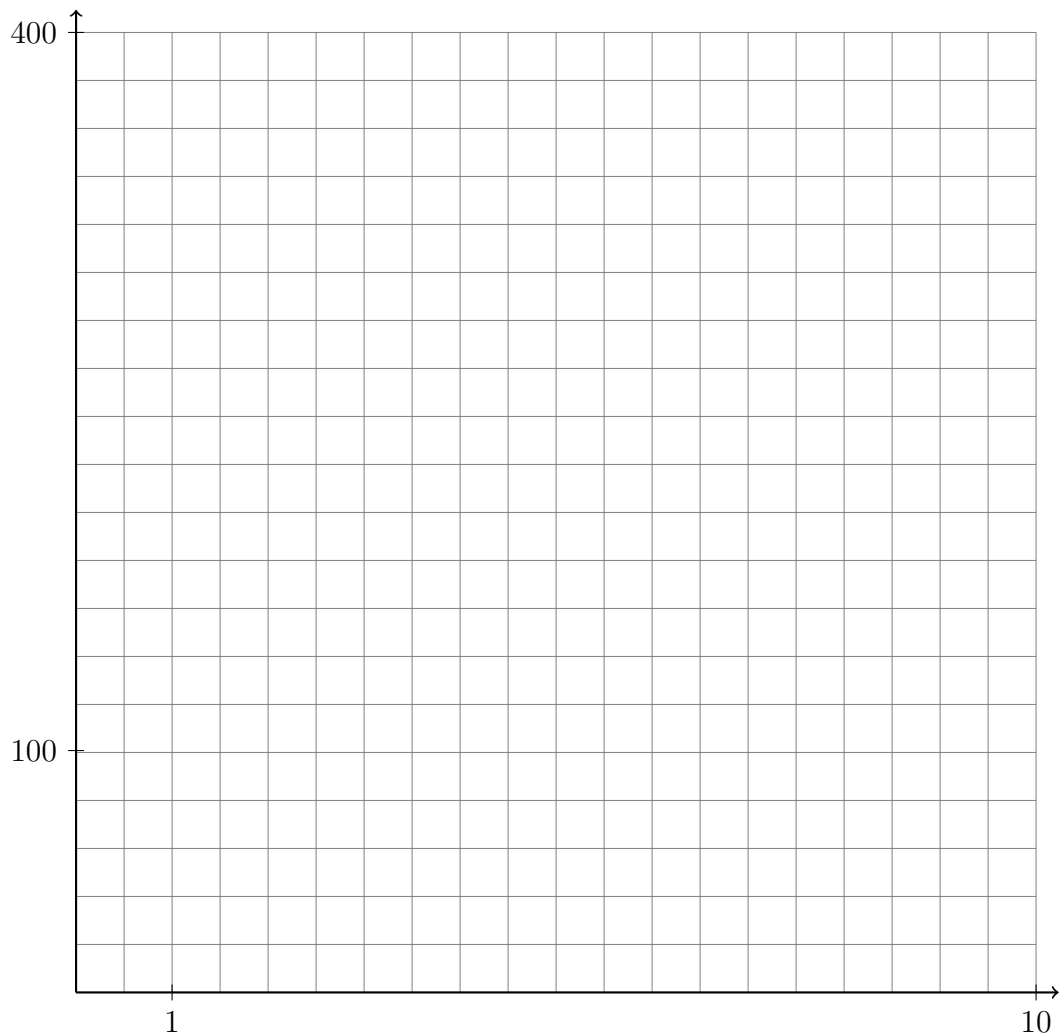   (a) Support your answer with evidence from the graph.

   (b) Give an algebraic argument to explain your answer.