Math 111   EXAM 3 PART 1, SPRING 2018   **Name:** _____
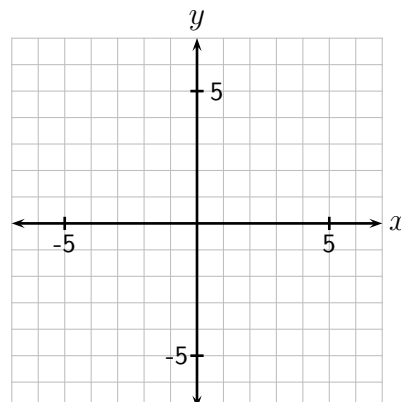
You are not to use a calculator for this part of the exam. Each numbered exercise is worth 6 points.

1. Do the following for the function $y = 2^{-x}$:

   - Find at least five xy-pairs that satisfy the function and put them in the table given. **Include at least two negative values of** x.
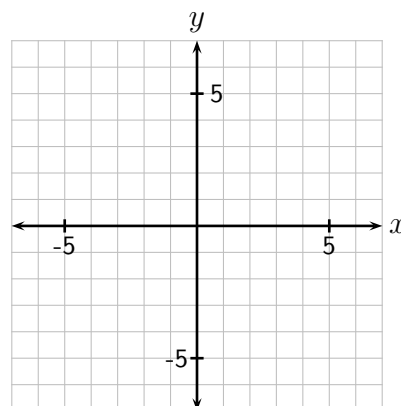   - Plot the graph of the function.

x	y

There is another on the back!

2. Find the value of each logarithm; show any work you do in the space provided. Put DNE for any that do not exist.

(a) $\log_3 -27 =$ _____

(b) $\log_2 \frac{1}{16} =$ _____

(c) $\log_5 25 =$ _____