NAME_____

Run Fido, Run!

Pond

GARDEN

Deck

Back of the house
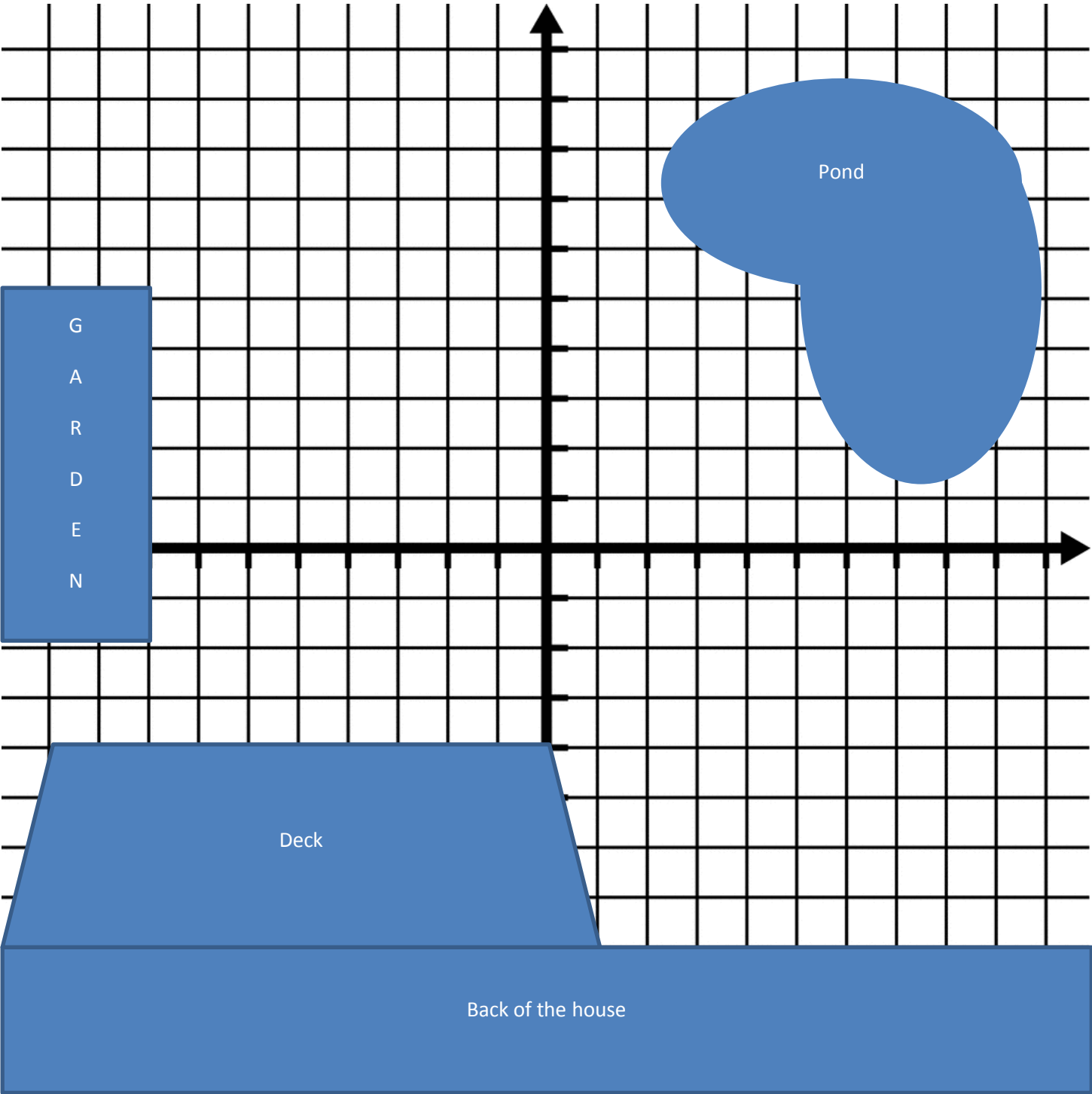
Note: each tick mark represents a 1 foot distance

1) Determine one possible location to place the stake (center of the circle) **in each of the quadrants** of the yard so that Fido can run in the greatest circle possible with a leash 3 feet long. Write below to represent your circles:

2) Where could you place the stake so that Fido could run with a 4 feet long leash in three of the quadrants? Write equations below to represent your circles:

3) Where could you place the stake if the leash was 5 feet long? Write the equations to represent your circles below

4) Could you find a location for a leash 6 feet long? Why or why not?