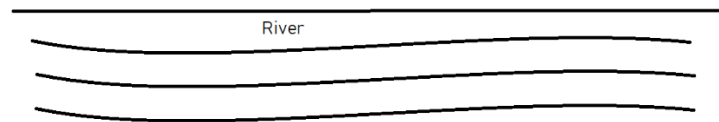


Week #7 Fall 2024



Problem of the Week



You are getting a new puppy and would like to create a fenced in area for your puppy. You have 100 feet of fencing to work with. Your house is 30 feet by 20 feet and is located 25 feet from the river. The breed of dog that you are getting is known for never getting into the water (You can use the house and river as edges of your puppies perimeter). Using the fencing and attributes of your property, what is the largest area that you can create for your puppy to roam in?

Undergraduates may submit solutions to the Mathematics Department office, 1150 FAB **or** by email to mathpow@wayne.edu by noon 11/6/2024. Include your name, ID number, and whether you have completed Math 2030 (or higher). For more information go to <https://clas.wayne.edu/math>. Solutions will be posted online and throughout the math department after the deadline.