

Name: _____

MATH 100

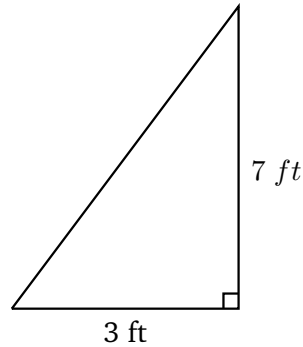
Fall 2023

HW 2: Due 09/13

*"I wasn't a failed DJ. I was
pre-successful."*

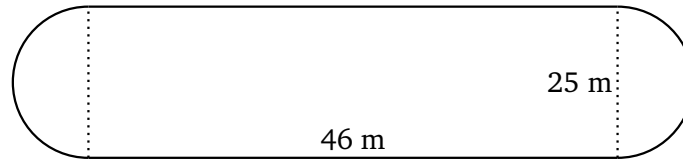
—Jason Mendoza, The Good Place

Problem 1. (10pt) Consider the triangle given below:



- (a) Find the perimeter of the triangle.
- (b) Find the area of the triangle.
- (c) If the lengths of the legs in the triangle were mislabeled as being in feet when they should have been in meters, convert your answer in (b) to square meters.

Problem 2. (10pt) Consider the ‘track’ shown below:



- (a) perimeter
- (b) area
- (c) If you scale the track's size by a factor of two, what is the new perimeter and area?

Problem 3. (10pt) volume problem

Problem 4. (10pt) surface area problem

Problem 5. (10pt) various computations

Problem 6. (10pt) irregular shapes