

the cost of the patio when x = 9.

Error Analysis

A hamster Bob Skweeker wants to open a hot dog stand outside the Golden One Center. He has the following components of his business figured out:

ALL HOTDOGS COST ONE HAMSTER BUCK!

• The **cost** of the all the stuff he needs to make hotdogs is given by:

 $2(x^2+2x+100)$, where x is money in hamster bucks

• The **revenue** he makes from selling the hotdogs is given by:

 $3x^2 + 5x$, where x is money in hamster bucks

That said, Bob believes he can sell 40 hotdogs and make a nice profit - but he wants to be sure. That's why he hired you to be sure make sure he's correct. Bob wants you to build a profit function for him and use it to make your decision from that. Good luck and don't get fired!

The area of the rectangle below can be expressed as $A(x) = 64x^3 - 27$. That said, find the polynomials that represent the LENGTH and WIDTH of the rectangular hamster painting. After you find those, build a perimeter equation in terms of x. Put all solutions in standard form.

Length	
	Width

Length: _____ Width: _____ Perimeter: _____