

Math 120 C - Autumn 2009  
Mid-Term Exam Number Two  
November 19, 2009  
Answers

There were two versions of the exam.

Version A - In problem 1, Azami had 60 meters of fencing.

1. The enclosure should be 18 meters wide (the side with the gap) and 15 meters long.
2. 37.6634 years after 1980.
3. 90.909 kg
4. (a)  $f(g(x)) = 12x + 29$  (b)  $h^{-1}(x) = \frac{x-3}{12}$  (c)  $1/4$  and  $1/9$

Version B - In problem 1, Azami had 300 meters of fencing.

1. The enclosure should be 90 meters wide (the side with the gap) and 75 meters long.
2. 52.94 years after 1980.
3. 87.2727 kg
4. (a)  $f(g(x)) = 12x - 19$  (b)  $h^{-1}(x) = \frac{x+5}{12}$  (c)  $1/4$  and  $1/9$