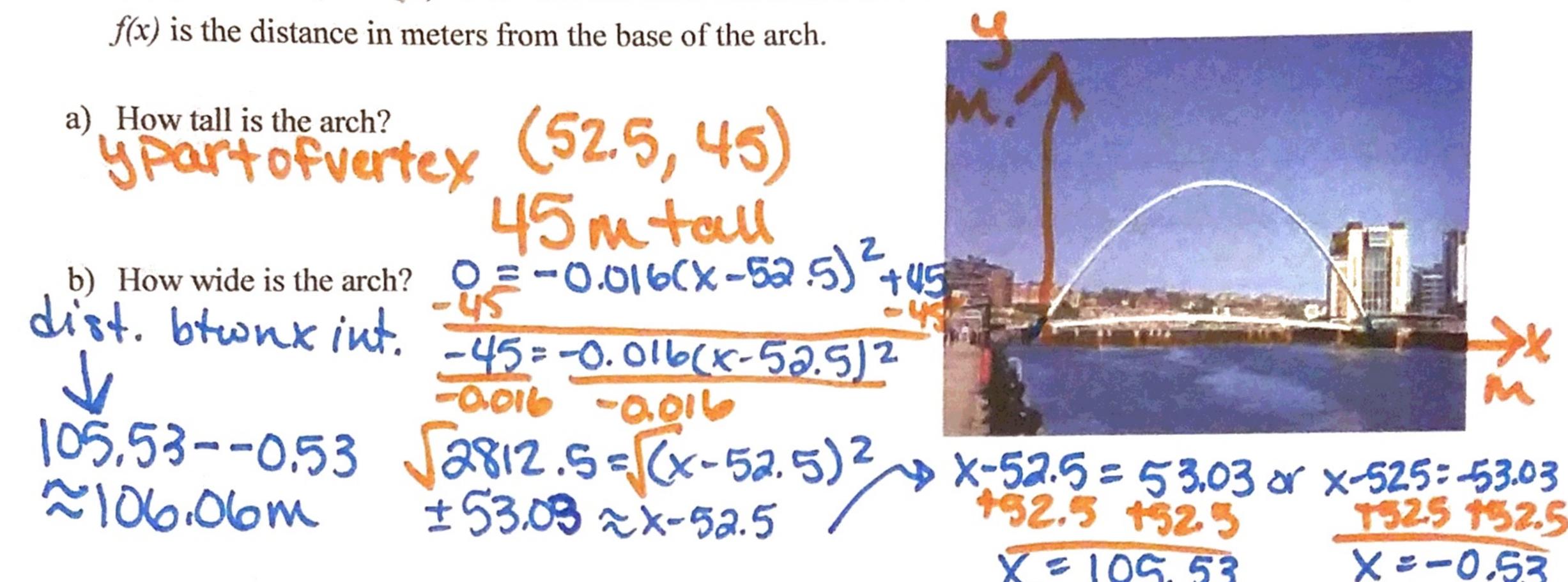
Name:		
ranne.		ΥΥ A1α 1
II-14	Date:	Hour:Alg 1
Unit 7B Day 15: Applications		
-J · C · ADDIICATIONS	Of Outperstine	

Focus Question: How do I solve a word problem?

Solve each problem by hand. You may use the calculator to check your answer after you have completed the problem.

The arch of Gateshead Millennium Bridge forms a parabola with the equation $f(x) = -0.016(x - 52.5)^2 + 45$ where x is the horizontal distance in meters from the arch's left end and



- The function $f(x) = -0.03(x-14)^2 + 6$ models the jump of a red kangaroo where x is the horizontal distance (in feet) and f(x) is the corresponding height (in feet).
- a) How high can a red kangaroo jump? 0 = -0.03(x-14)
- b) What distance does the kangaroo's jump cover? dist. btww. int. -6=-0.03(x-14)2

28.14--0.14

Can you answer the question "how long was the kangaroo in the air?" Explain.

No % time was not a measured variable.

