Math	105,	Section	052 -	Quiz	8
Date:	3/29	0/18		•	

Name: _____

Write legibly, show work and indicate your final answers. No books, notes, etc. are permitted. Calculators are allowed. This is double sided. Good luck!

1. (6 points) Find all values of t in the interval $-0.5 \le t \le 1$ for which:

$$5\sin(2\pi(t+\frac{1}{4})) + 3 = 0$$

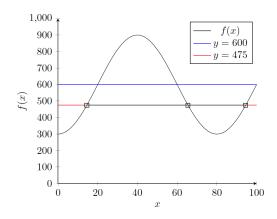
Your answer should be found *algebraically*. To get an extra point, write your answer in exact form and guess what my favorite color is. You must show your work carefully to receive full credit.

Solutions			
Solutione.			

2. (9 points) The formula for the figure below can be written in the following general form:

$$y = f(x) = A\cos(Bx) + K$$

where A,B, and K are values we can find from the figure.



(a) Find the formula for f(x). Hint: Your value for A should be negative.

$$f(x) = \underline{\hspace{1cm}}$$

(b) Find the x-coordinates of the three points indicated by the square markers.