**7.5,7.6**



**For all problems below, solve for x between 0 and 2**

2sinx = -1

sinx = -1/2

There should be two answers….

Check that they are reasonable given the graph of f(x) = 2sinx + 1 below.



Use Quadratic Formula to solve for y:

NOW REMEMBER THAT and solve for x.

 There should be 4 answers….

Make the arguments the same…

Then move everything to one side to make it a quadratic equation that equals 0 so that you can use quadratic formula as you did in the question above.

As you can see by the graph there should be 3 answers between 0 and 2pi

Hint: Let

There should be 2 answers for and then sub back in the so that you can solve for . You might need to add the period to find all the values of x between 0 and 2pi. As you can see from the graph there should be 4 answers.



Now you try…

**SOLUTIONS:**









