Due Monday, June 27, 2011

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Feel free to do additional problems

The listed homework is a *lower bound* on the number of problems you should be doing: doing more homework is a great idea! It is also a good idea to do more than just the problems from the book: try your hand at inventing your own problems! Try to push the limits of the techniques we learn. See what you can do with the mathematical machinery.

Show Work

When you "solve" a problem, the goal is not merely to give a correct answer! Each problem has a story, and you should *tell the story* by clearly explaining your argument.

Problem 1

Page 16, problem 2 in Ahlfors' Complex Analysis.

Problem 2

Page 20, problem 2 in Ahlfors' Complex Analysis.

Problem 3

Page 20, problem 1 in Ahlfors' Complex Analysis.

Problem 4

Page 16, problem 4 in Ahlfors' Complex Analysis.

Problem 5

Page 28, problem 3 in Ahlfors' Complex Analysis.

Problem 6

Page 28, problem 4 in Ahlfors' Complex Analysis.

Problem 7

Page 32, problem 2 in Ahlfors' Complex Analysis.

Problem 8

Page 32, problem 3 in Ahlfors' Complex Analysis.

Problem 9

Page 33, problem 6 in Ahlfors' Complex Analysis.

Problem 10

Page 32, problem 4 in Ahlfors' Complex Analysis.

Problem 11

Page 32, problem 1 in Ahlfors' Complex Analysis.

Problem 12

Page 37, problem 5 in Ahlfors' Complex Analysis.

Problem 13

Page 37, problem 5 in Ahlfors' Complex Analysis.