

Dror Bar-Natan: Classes: 2004-05: Math 157 - Analysis I:

Homework Assignment 15

Assigned Tuesday January 25; not to be submitted.

Required reading. All of Spivak's chapters 15 and 18.

Recommended for extra practice. From Spivak Chapter 15: 4, 7, 9, 15, 18 and 27.

In class review problem(s) (to be solved in class next Tuesday). Chapter 15 problem 10:
Prove that

$$\arcsin a + \arcsin b = \arcsin \left(a\sqrt{1-b^2} + b\sqrt{1-a^2} \right),$$

indicating any restrictions on a and b .