

# PMATH352W18 - Complex Analysis - Topical Exercises

Johnson Ng

January 17, 2018

# Contents

<b>1</b>	<b>Complex Numbers</b>	<b>2</b>
1.1	Basic Algebraic Properties . . . . .	2

# Chapter 1

## Complex Numbers

### 1.1 Basic Algebraic Properties

1. Verify that

(a)  $(\sqrt{2} - i) - i(1 - \sqrt{2}i) = -2i$

(b)  $(2 - 3i)(-2 + i) = -1 + 8i$

(c)  $(3 + i)(3 - i)(\frac{1}{5} - \frac{1}{10}i) = 2 + i$