MATH 407-10a, Assignment 3

Guidelines
Answer the questions in the space provided; you may write on both sides of the paper. Put the names of all group members in the top right corner. You may append additional sheets as needed. Please staple all sheets together before submission.

Due: Tuesday, Feb 2nd (in class)

1. (10 marks) Find all solutions $z$ of the equation

$$2(z - 1)^4 = \sqrt{3} - i.$$

2. (10 marks) Find all solutions $z$ of the equation

$$z^6 - 4z^3 + 4 = i.$$