

MA 158

Quiz 4

26 settembre 2016

**Instructions:** Show all work, with clear logical steps. No work or hard-to-follow work will lose points.

**Problem 1.** (4 points) Find an equation for a polynomial of degree 5 with the following properties:

1. zeros at  $x = 1$  and  $x = -7$ ;
2.  $f(0) = -16$ ;
3.  $f(x) > 0$  only on the interval  $(-\infty, -7)$ .