Quiz 5 — 3 October 2019

Answer the questions in the spaces provided. **Show all of your work and circle the answer you would like to have graded for each question.**

Name and section:_____

1. Determine the exact number of turning points for the graph of the function

$$f(x) = x^3 - 12x^2 + 36x.$$

2. Write $\dfrac{2+i}{2-i}$ in standard form.

3. Find the degree 2 polynomial f with $2i$ as a root and a y-intercept of -4.