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

\[ f(x) = x^3 - 12x^2 + 36x. \]

2. Write \( \frac{2 + i}{2 - i} \) in standard form.

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