P1. (2pts.) Rationalize and write in standard form.

\[
\frac{3 - 2i}{4 - 3i}
\]

P2. (3½ pts.) Find a polynomial with real coefficients of minimal degree that has zeroes at both \(-1\) and \(\frac{1}{2} - \frac{i\sqrt{3}}{2}\). Write this polynomial in standard form.

P3. (3½ pts.) Find all complex zeroes of \(f(x) = 4x^4 + 7x^3 + 14x^2 + 28x - 8\), given the information that \(f(2i) = 0\).

P4. (1pt.) Tell me one thing that is legal, but shouldn’t be.