1- Describe the end behavior of $f(x) = -x^2(x^2 - 1)(x + 1)$.

2- Use the intermediate value theorem to show that the polynomial $f(x) = x^4 - x^3 - 10$ has a real solution in the interval $[2, 3]$.

3- Find the zeros of $f(x) = x^3 - 6x^2 + 8x$ and state the multiplicity of each zero.

4- Explain why the function $f(x) = 2x^3 - 5x + 1$, $0 < x < 3$ is not a polynomial function.