Spring 2024 Section C: Algorithms Analysis

2) (5 pts) ANL (Algorithm Analysis)

A $O(n^3)$ image processing algorithm took 125 milliseconds to index n = 400 images. How long would it be expected for this algorithm to take to index 640 images, in milliseconds? Please show all your work, including algebraic simplification, which is part of what is being tested with this question.