Fall 2017 Algorithms and Analysis Tools Exam, Part A

2) (5 pts) ANL (Algorithm Analysis)

An algorithm processing an array of size n runs in $O(n\sqrt{n})$ time. For an array of size 10,000 the algorithm processes the array in 16 ms. How long would it be expected for the algorithm to take when processing an array of size 160,000? Please express your answer in *seconds*, writing out exactly three digits past the decimal.
