

APPM 1350

Fall 2021

Quiz 7

10/26/2021

Time Limit: 10 Minutes

Name: \_\_\_\_\_

Recitation Section: \_\_\_\_\_

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Be sure to show your work to justify your answer. Correct answers with no work will not receive full points.

1. Find  $f$  such that  $f'(x) = x^{1/2} - 4$  and  $f(4) = 0$
2. State the formula for Newton's method. For the function  $f$  you found in part 1, formulate Newton's method and find  $x_1$  from the starting value  $x_0 = 9$ . **No calculators and do not simplify.**