

Exam I
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Instructions: Answer ¹ the following.

1. Solve $x^2 = 3\sqrt{x}$.

2. Solve $x = \tan x$.

3. Solve

$$y' - 3x = 7.$$

4. Solve

$$y'' - 3y' = 7.$$

5. The following parts are unrelated:

(i) What is the value of $\sum_{i=1}^n i$?

(ii) What is the value of

$$\sum_{i=1}^n i^2?$$

6. Find $\int_2^5 \frac{1}{x+1} dx$?

7. Consider the equation

$$\tan x = x. \tag{1}$$

Use fixed-point iteration to solve Equation (1). What is x_{12} in this iteration?

Question #8: ...

¹Do only 5 questions.