Practice Test 2
`with Updated Question 8`

Note: The actual test will be around the same level of difficulty, but slightly shorter. The questions will be different. But the same definitions, methods, and skills will be tested.

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1. Which of the following integrals are improper? Select all that apply. For the integrals that are improper, explain why they are improper.

(a) $\displaystyle\int_1^\infty \left(\frac{\sin(x)}{x}\right)^2 dx$

(b) $\displaystyle\int_1^\infty \frac{1}{1-\frac{1}{x}} dx$

(c) $\displaystyle\int_0^1 x^{-1/2} dx$