Abject mismatch tester gets us

Masterclass – session I

• The go-to URL: https://www.ets.org/gre/subject/ In general, the questions are intended not only to test recall of information but also to assess the understanding of fundamental concepts and the ability to apply those concepts in various situations.

Read the FAQ!

- About 2½ min per question.
- #2/HB pencil + eraser.
- Correct answer: +1 point, wrong answer: nevermind.
- Typical undergrad material covered.
- Good resource: http://rambotutoring.com/
- Registration (non-US): Sep 13 (regular) Sep 20 (late).

- The go-to URL: https://www.ets.org/gre/subject/
- About $2\frac{1}{2}$ min per question (about 66 questions, under 3h).
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- The go-to URL: https://www.ets.org/gre/subject/
- About 2½ min per question.
- #2/HB pencil + eraser.
 No notes, calculator, or extra scratch paper, etc.
- Correct answer: +1 point, wrong answer: nevermind.
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From [go-to URL]/prepare/strategy/:
Nothing is subtracted [..] if you answer a question incorrectly.
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Also, It matters not if you're the only one to solve problem X.

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- Raw score (#points) normalized to scaled score (200–990).
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Calculus Diff Eq

Algebra, trigo Linear alg Abstract alg Number theory Set theory
Proba & stats
Combinatorics
Real analysis
Topology
Complex variables

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 I'll be using problems from there & "The Princeton review".
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...for the next slot Sat, Oct 26, 2019.

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- Test run?

What is a masterclass?



O. Ghiglia with A. Segovia (1965) http://bit.do/segovia

$$\int_0^1 \sqrt{e^{2x} + e^{-2x} + 2} \, dx$$

$$1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \dots$$

For how many values of $k \in \mathbb{R}$ the system of equations

$$kx + y + z = 1$$
$$x + ky + z = k$$
$$x + y + kz = k^{2}$$

has no solutions?

For how many values of $k \in \mathbb{R}$ the system of equations

$$kx + y + z = k$$
$$x + ky + z = k$$
$$x + y + kz = k2$$

has no solutions?

Let $p \neq q$ be primes. How many abelian groups of order p^2q^4 ?

Let $p \neq q$ be primes. Which of $\{p, p+q, pq, p^q, q^p\}$ can coexist in a proper subgroup of $(\mathbb{Z}, +)$?

Let $B \subset \mathbb{R}^2$. Assume that every continuous $f: B \to \mathbb{R}$ is bounded.

Let $B \subset \mathbb{R}^2$. Assume that every continuous $f \colon B \to \mathbb{R}$ is bounded. Is B compact?

