



Syllabus for AMC 10/12 Last-minute Crash Course (AMC 10/12 考前终极冲刺教学大纲)¹

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OBJECTIVES (教学目标)

We expect students to achieve the following goals after taking this course:

(学生通过我们的课程培训可以实现以下目标)

1. Get familiar with the most recent AMC 10/12 problems.
(熟悉最近几年的AMC 10/12考题)
2. Master problem-solving skills to solve AMC 10/12 problems.
(掌握解决AMC 10/12题目的解题方法)
3. Qualify for AIME.
(晋级AIME)
4. Receive AMC awards, such as honor rolls, distinguished honor rolls.
(获得AMC奖励, 例如荣誉奖, 杰出荣誉奖)

Duration (总课时)

This is a 6-hour course (全课程总计 6 小时).

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COURSE CONTENTS (教学内容)

AMC 10/12 (both A and B) Problems 11-20 in 2021 Spring, 2021 Fall and 2022. This consists of approximately 100 real problems.

2021 年春季、2021 年秋季和 2022 年的 AMC 10/12 (A 和 B) 问题 11-20。这包括大约 100 个真题。

FREQUENTLY ASKED QUESTIONS (常见问题)

Q: Why does this course focus on the most recent AMC problems?

A: Most recent problems share some common trends. By digesting recent years problems, students are more likely to be comfortable with the upcoming exams.

问：为什么这门课程侧重于最近几年的 AMC 问题？

答：最近的问题分享一些共同的趋势。通过消化近年来的问题，学生更有可能对即将到来的考试感到适应。

Q: Why does this course cover problems numbered from 11-20, not those numbered from 1-10, or 21-25?

A: Problems 1-10 are very basic. If a student has big trouble solving the first 10 problems (say, a student can solve at most 6 out of the first 10 problems), then this student lacks enough background to take AMC. It is very unlikely that this student can qualify for AIME.

Problems numbered 21-25 are very challenging and may be very time consuming. Therefore, from the perspective of qualifying for AIME, it is not economically efficient to put effort on these problems. In addition, students need to spend huge efforts to develop skills and abilities to be ready to solve these problems. These skills and abilities cannot be developed in only 1-2 weeks.

Our experience shows that whether a student qualifies for AIME primarily depends on how many problems numbered from 11-20 they can solve.

Due to the reasons above, we have decided to put our focus on problems numbered from 11-20.

问：为什么这门课程涵盖从 11 到 20 号的问题，而不是从 1 到 10 号或 21 到 25 号的问题？



答：问题 1-10 非常基础。如果一个学生在解决前 10 个问题方面遇到很大困难（比如，一个学生最多只能解决前 10 个问题中的 6 个），那么这个学生缺乏足够的背景来参加 AMC 考试。这个学生很可能无法获得 AIME 资格。

问题 21-25 非常具有挑战性，可能非常耗时。因此，从获得 AIME 资格的角度来看，在这些问题上付出努力不经济。此外，学生需要花费大量的精力来培养解决这些问题所需的技能和能力，这些技能和能力不可能在短短 1-2 周内培养出来。

我们过去的经验表明，学生是否能够获得 AIME 资格主要取决于他们能解决多少道从 11 到 20 号的问题。

出于以上原因，我们决定将重点放在从 11 到 20 号的问题上。

Q: We can find solutions online. Is it a waste of time to take your course?

A: No. Reasons are as follows.

First, our solutions are not a copy of any existing solutions online. We have our own insights in solving problems.

Second, we do not teach problems themselves. If a problem is with some key problem-solving skills or key concepts, we will pause and elaborate on those points, and explain to students how those fundamental and general methods can be applied to solve a wide range of problems.

问：我们可以在网上找到解决方案。参加您的课程是否浪费时间？

答：不是。原因如下。

首先，我们的解决方案不是复制在线已存在的任何解决方案。我们在解决问题方面有自己的见解。

其次，我们不会教授问题本身。如果一个问题涉及到一些关键的问题解决技巧或关键概念，我们会停下来详细阐述这些要点，并向学生解释这些基本和通用的方法如何应用于解决各种问题。