

**AIME Problems 1985**

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- 1 Let  $x_1 = 97$ , and for  $n > 1$  let  $x_n = \frac{x_{n-1}^2}{x_{n-1} + 1}$ . Calculate the product  $x_1 x_2 \cdots x_n$ .

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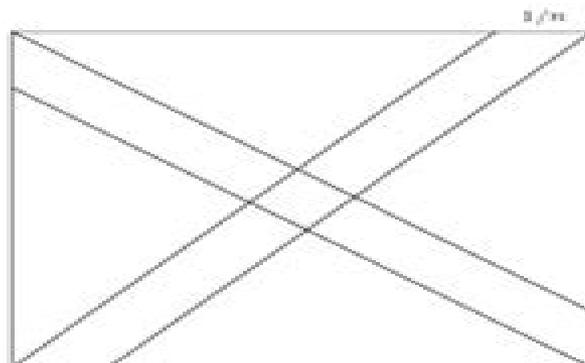
- 2 When a right triangle is rotated about one leg, the volume of the cone produced is  $800\pi$  cm<sup>3</sup>. When the triangle is rotated about the other leg, the volume of the cone produced is  $1920\pi$  cm<sup>3</sup>. What is the length (in cm) of the hypotenuse of the triangle?

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- 3 Find  $c$  if  $a$ ,  $b$ , and  $c$  are positive integers which satisfy  $c = (a + bi)^2 - 107i$ , where  $i^2 = -1$ .

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- 4 A small square is constructed inside a square of area 1 by dividing each side of the unit square into  $n$  equal parts, and then connecting the vertices to the division points closest to the opposite vertices. Find the value of  $n$  if the the area of the small square is exactly  $1/1985$ .



- 5 A sequence of integers  $a_1, a_2, a_3, \dots$  is chosen so that  $a_n = a_{n-1} - a_{n-2}$  for each  $n \geq 3$ . What is the sum of the first 2001 terms of this sequence if the sum of the first 1492 terms is 1985, and the sum of the first 1985 terms is 1492?

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- 6 As shown in the figure, triangle  $ABC$  is divided into six smaller triangles by lines drawn from the vertices through a common interior point. The areas of four of these triangles are as indi-

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