

Lesson 9: Solutions

Anton Lykov & Konstantin Miagkov

December 9, 2018

Problem 1.

5 games.

Problem 2.

3825

Problem 3.

172 coins.

Problem 4.

6,210,001,000.

Problem 5.

Draw an equilateral triangle and draw another one, translated by 1.

Problem 6.

6

Problem 7.

(1,5)

Problem 8.

5

Problem 9.

6032

Problem 10.

70

Problem 11.

± 2001

Problem 12.

$222^2, 22^{2^2}, 2^{2^{2^2}}, 22^{22}, 2^{222}, 2^{22^2}, 2^{2^{22}}.$

Problem 13.

8

Problem 14.

1,2,3

Problem 15.

398

Problem 16.

1.9

Problem 17.

28

Problem 18.

553 (not sure, computed at 2:30 am)

Problem 19.

$7/2$

Problem 20.

$-10/3$