1992 HG5

求 10¹⁹⁹¹ 除以 7 的餘數。

Find the remainder when 10^{1991} is divided by 7.

2000 FI2.3

當 1999^{81} 被 7 除時,餘數為 R。求 R 的值。

When 1999^{81} is divided by 7, the remainder is R. Find the value of R.

2008 FG2.2

若 $1^6 + 2^6 + 3^6 + 4^6 + 5^6 + 6^6$ 被 7 除後的餘數是 R ,求 R 的值。

If R is the remainder of $1^6 + 2^6 + 3^6 + 4^6 + 5^6 + 6^6$ divided by 7, find the value of R.

2013 FI1.2

已知 1111111 能被 7 整除。若 b 為 1111111...1111111 除以 7 的餘數, 求 b 的數值。

Given that 7 divides 111111. If b is the remainder when $\underbrace{111111...11111}_{100-times}$ is

divided by 7, find the value of b.

2015 FI2.2

若 β 為
$$\underbrace{111\cdots111}_{100\,\text{M I}}$$
÷7的餘數。求 β 的值。

If β is the reminder of $\underbrace{111\cdots 111}_{100\ 1's} \div 7$, determine the value of β .

2018 FG1.3

設 m 及 r 為非負整數。若 f(7m+r)=r,求 $q=f(2^{2018})$ 的值。

Let m and r be non-negative integers.

If f(7m + r) = r, determine the value of $q = f(2^{2018})$.

Answers

1992 HG5	2000 FI2.3	2008 FG2.2	2013 FI1.2	2015 FI2.2
5	1	6	5	5
2018 FG1.3				
1				