

MATH1009 – Quiz 6
Wednesday, December 14, 2016
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Name and surname:

Student number:

Question

(30 minutes – 100 points)

Consider $G = \{1, 3, 5, 7\}$ under multiplication modulo 8.

1) Construct the multiplication table of G :

\times	1	3	5	7
1				
3				
5				
7				

2) Determine whether 1^{-1} , 3^{-1} , 5^{-1} , and 7^{-1} exist. If exist(s), find the value(s).