

# MATH1025 Homework 3 Feedback

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**Question 1.** 1. Rather than writing ‘where  $r$  is the last two digits of the number’, specify what this means, i.e. write something like  $r \in \{0, 1, 2, \dots, 98, 99\}$ .

2. Cite/reference the rules or lemmas you are using.

3. You only proved one direction of an ‘if and only if’ statement. Now show the other one.

4. If you choose to write your  $x$  as  $a_0 + a_1 10 + a_2 10^2 + \dots + a_n 10^n$ , then specify what  $n$  and  $a_i$  are.

**Question 3.** Justification has overall improved, including writing and layout! It would be good to cite which statements you use, for example, ‘by Question 1, if a number is divisible by 4, then...’.

1. Use divisors of 12 rather than the fact the number is divisible by 12.

**Question 5.** 1.