

tags: MATA02-2022

MATA02-2022: Quiz 2 Practice [20pts total]

During tutorials week 6: Feb 14-Feb 18

Write your name and Student Number on every single page of work, or else you will not get credit

1. [6pts]

How many positive integers divide both 12240 and 28350?
Show your work.

2. [6pts]

Find $\phi(28350)$. Show your work.

3. [8pts]

- Suppose that you have a bucket that holds 72 cups, and one that holds 21 cups. Can you use them to measure 14 cups of water? What about 15 cups of water?
- Give at least 2 different ways to perform whichever of the measurements you are able to do.
- Please use the Euclidean algorithm and linear combinations to solve this problem, and be sure to show your work.

Extra space for problem 3