MAT347Y1 HW8 Marking Scheme

Friday, November 28

Total: 30 points.

1: 5 points. I'm feeling generous. Thanks for handing in your assignment.

2: 9 points.

- (2) Divide into cases based on existence of a unique (normal) Sylow 7-subgroup

- (1) Classify groups of order 21, or show existence of a group of order 6

- (6) Correct classification by semidirect products

3: 3 points.

4: 4 points for each of a and b:

- (1) minimal set of generators

- (3) relations, with proof that you have enough of them (a common mistake was to provide a set of relations that would work, but with no justification)

5: 5 points.