2020W A33 Quiz 1 T10 Rubric

[Q1a]
3 marks - z = ax - by, z = ax + b
any function where as Z decreases, it moves towards from the origin to achieve a minimum.
Z = ax - by, z = ax + b, as long as a > 0.

[Q1b]
misled ppl in this particular tutorial, everyone 3/3

[Q2]
1 mark * 3 - each correct inequality direction(excluding x,y >= 0)
1 mark * 3 - each correct line(excluding x,y >= 0)
1 mark - by LP theorem(0.5), the region R is empty(0.5)
(-0.5 total if any line not labelled)
(-0.5 total if any corner pt not labelled)
(-0.5 total if feasible region 'R' not shown)

[Q3a]
1 mark - objective function
2 marks - teaching, admin constraints on A32, A33
2 mark - minimum 30 students constraints on A32, A33
1 mark - process of determining corner points
1 mark - process of determining revenue
1 mark - correct answer(0.5 if calculation error)

[Q3b]
2 marks - determine new constraint is x = y
2 mark - correct corner points(0.5 if calculation error)

[Q4]
3 marks - process of determining corner points
1 mark - correct answer for max(0.5 if calculation error)
1 mark - correct answer for min(0.5 if calculation error)