

MATH310 Groupwork 2022-07-15

NAME:

For each of the following a set of hypotheses are given and a conclusion is given. Use the hypotheses to prove the conclusion. The key item to focus on is clarity of your explanation.

1. Hypothesis 1: $x > 10$
Hypothesis 2: $y > 3$
Conclusion: $x + y^2 > 19$

2. Hypothesis 1: ac divides bc
Conclusion: a divides b

3. Hypothesis 1: x is even.
Hypothesis 2: y is odd.
Conclusion: $3xy + 57$ is odd.

4. Hypothesis 1: If I am not a turnip then I am crazy.
Hypothesis 2: If I am a turnip then I am not a radish.
Hypothesis 3: I am a radish.
Conclusion: I am crazy.