
Homework 2, due Friday 2/4

1. p. 62, questions (1) – (10), (12), (14)–(17) (15 points)
2. p. 64, problem (3), (5 points)
3. p. 64, problem (4), (5 points)
4. p. 64, problem (5), (10 points)
5. proof proposition 2.2 on p. 51 (15 points)
6. proof proposition 2.5 on p. 51 (15 points)
7. (15 points) Proof the following: If l, m are any two lines, then there exists a line l which intersects l and m in exactly one point each. Hint: distinguish the two cases $l = m$ and $l \neq m$.
8. p. 65, problem 13 (8 points). Just write down yes or no for each statement. You are very encouraged to discuss especially this problem with your friends.