## 01204211: Exercises 10-1

1. (LPV-6.1.3) Prove that if a|b and a|c, then a|(b+c) and a|(b-c).

2. (LPV-6.1.6) Prove that for every integer  $a, a - 1|a^2 - 1$ .

3. (LPV-6.3.3) Suppose that a and b are integers and a|b. Suppose that p is a prime and p|b, but  $p \not|a$ . Prove that p|(b/a).