-- bijection.sub -- surjection.sub -- injection.sub Set A, B Set A, B Set A, B f: A -> B f: A -> B f: A -> B Injection(f) Surjection(f) Surjection(f) Not(Surjection(f)) Not(Injection(f)) Injection(f) STYLE — discrete STYLE — continuous f(x)f(x) \boldsymbol{x} B_1 injection B_0 A_0 A_1 f(x)f(x) \boldsymbol{x} surjection B_1 B_0 0 A_0 A_1 f(x)f(x) \boldsymbol{x} B_1 B_0 A_0 A_1