The Welfare Effects of Oligopolistic Third-Degree Price Discrimination when Own and Cross Price Elasticities Are Constants*

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April 6, 2015

Abstract

This study examines the welfare effects of oligopolistic third-degree price discrimination with constant own and cross price elasticities of demand under product differentiation. We verify the robustness of Adachi and Matsushima’s (2014) finding on social welfare under linear demand, that price discrimination is more likely to improve social welfare for a higher value of cross price elasticity in a “strong” market (where the discriminatory price is higher than the uniform price). In contrast to Aguirre and Cowan’s (2015) results for a monopoly, social welfare can be higher with price discrimination even if the relative share of the strong market under uniform pricing or the own elasticity difference between the two markets is sufficiently small. Consumer surplus can also be higher with price discrimination if the cross price elasticities are sufficiently low. This suggests that Adachi and Matsushima’s (2014) result on consumer surplus (price discrimination never improves social welfare) hinges on the assumption of linearity.

JEL classification numbers: D43; L11; L13.

*We are grateful to Takeshi Ikeda, Tamotsu Kadoda, Stephen King, Tatsuhiko Nariu, Toshihiro Tsuchihashi and conference and seminar participants at the 41th Annual EARIE Conference, Daito Bunka University, Nanzan University, and the 2014 Autumn Meeting of the Japan Association for Applied Economics for helpful comments discussions. Adachi thanks a Grant-in-Aid for Young Scientists (B) (24730205) from the Japanese Ministry of Education, Science, Sports, and Culture and a financial support from the Kikawada Foundation. Ebina acknowledges a Grant-in-Aid for Scientific Research (C) (24530264) and a Grant-in-Aid for Young Scientists (B) (24730224) from the Ministry. Any remaining errors are our own.

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