Generalized linear pricing

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Abstract

In this paper, I describe generalized linear pricing.
The paper ends with "The End"

Introduction

In this paper, I describe generalized linear pricing.

Generalized linear pricing

The equations of generalized linear pricing are:

$$P = a + bD + cS$$

$$Q = \alpha + \beta D + \chi S$$

$$AP + B = XQ + \Delta$$

$$S = D$$

where
S is supply
D is demand
P is price
Q is quantity
a, b, c, α, β, χ, A, B, X, Δ are coefficients.

The solution to generalized linear pricing

The solution to generalized linear pricing is:

$$S = \frac{\alpha X + \Delta - aA - B}{A(b+c) - X(\beta + \chi)}$$

$$D = \frac{\alpha X + \Delta - aA - B}{A(b+c) - X(\beta + \chi)}$$

$$P = \frac{(b+c)(\alpha X + \Delta - B) - aX(\beta + \chi)}{A(b+c) - X(\beta + \chi)}$$

$$Q = \frac{\alpha A(b+c) - (\beta + \chi)(aA - \Delta + B)}{A(b+c) - X(\beta + \chi)}$$

The End