$$f(x) = x^2 \tag{1}$$
$$f'(x) = 2x \tag{2}$$
$$F(x) = \int f(x)dx \tag{3}$$
$$F(x) = \frac{1}{3}x^3 \tag{4}$$

1 Introduction and Examples

1.1 Value of the stochastic Solution

cf. 1_1.jl

1.2 Price effect

cf. 1_1.jl

1.3 Binary first stage

Set

- F: fields, index i
- P: products, index j

Parameter

- $field_i$: size of field i
- $plant_j$: unit price of planting product j
- buy_j: unit price of buying product j
- $sell_j$: unit price of selling product j
- $cattle_j$: amount of product j to keep for the cattle
- $yield_j$: yield of product j for an unit of a field

Decision

- y_j= quantity of product $j = 1...P-1$ bought
- w_j= quantity of product $j = 1...P+1$ sold, the last being the sugar beets sold at a lower price
- $x_{ij} = \begin{cases} 1 & \text{if field } i \text{ is full of product } j \\ 0 & \text{else} \end{cases}$