**Inventory level**

 ***Imax***

 ***µ***

 ***t1***

***T***

 ***S***

**Lost sale**

**Figure 1:** Graphical presentation of the inventory system (Case 1*: t1≤ µ*)

 **Inventory level**

 ***Imax***

 ***µ***

***T***

 ***t1***

 ***S***

**Lost sale**

**Figure 2:** Graphical presentation of the inventory system (Case 2*: t1≥ µ*)

 

***Profit***

***Time***

**Figure 3:** Graphical presentation of total profit function versus time (Example 1)

 

***profit***

***Time***

**Figure 4:** Graphical presentation of total profit function versus time (Example 2)

 

***Time***

***Profit***

Uniform distribution

Trianguler distribution

 Double trianguler distribution

 Beta distribution

**Figure 5:** Graphical presentation of total profit function versus time under different probabilistic deterioration functions (Example 3-6)

 Case 3

 Case 2

 Case 1

 

***Profit***

***Time***

**Figure 6:** Graphical presentation of total profit function versus time for special cases (Example 7)