

$$D = 300 \text{ lb} / 1 \text{ semana}$$

$$K = \$20 / \text{pedido}$$

$$h = \$0.03 / \text{lb} / \text{día}$$

$$\text{Miguel Sincay}$$

$$t_0 = \frac{1}{D} = \frac{1}{\frac{300 \text{ lb}}{7 \text{ día}}} = \frac{7 \text{ día}}{300 \text{ lb}}$$

$$7 \text{ día} = 300 \text{ lb}$$

$$\frac{300 \text{ lb}}{7 \text{ día}}$$

a)

$$D = 300 \text{ lb} / 1 \text{ semana} = 300 \text{ lb} / 7 \text{ día}$$

$$TCU = \frac{\$20 / \text{pedido}}{\left(\frac{300 \text{ lb}}{300 \text{ lb}} \right)} + \left(\frac{\$0.03}{\text{lb}} \right) \left(\frac{300 \text{ lb}}{2} \right) = \$152.8871429 / \text{día}$$

$$\text{Coste semanal} = (\$152.8871429 / \text{día}) (7 \text{ días}) = \$1070.21$$

$$b) \gamma' = \sqrt{\frac{2(20)(300/7)}{0.03}} = 239.0457219$$

$$t'_0 = \frac{1}{D} = \frac{239.0457219}{300} = 0.796819073 \text{ día}$$

~~Pedir 632~~ Pedir 239 lb cada 0.80 días.

Miguel Sincay

5190-18-2953

c)

$$TCU(V) = \frac{\$20}{\left(\frac{23916}{0.8016} \right)} + 0.03 \left(\frac{23916}{2} \right) = \$28.585$$

dr

Now cost to service: $\$28.585 * 7 = \200.095

$$\$1,070.11 - 200.095 = \$870.115$$