

### **Answer on Question #48715 – Math – Algebra**

Suppose consumers will purchase  $q$  units of a product at a price of  $70q+5$  dollars per unit. What is the number of units that must be sold in order to obtain revenue of at least \$90?

**Solution.**

Revenue = price \* no. of units purchased,  $q \geq 0$ , because units of a product are non-negative. Therefore

$$q(70q + 5) \geq 90 \rightarrow 70q^2 + 5q - 90 \geq 0 \rightarrow q \geq 1.1$$

Thus, it must be sold 2 units.