

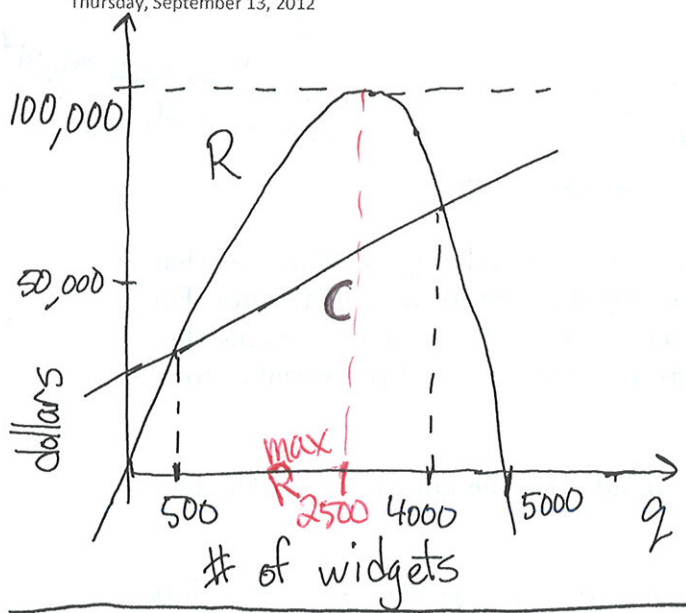
solutions + Clicker Qs.

*** Assume linear demand!**

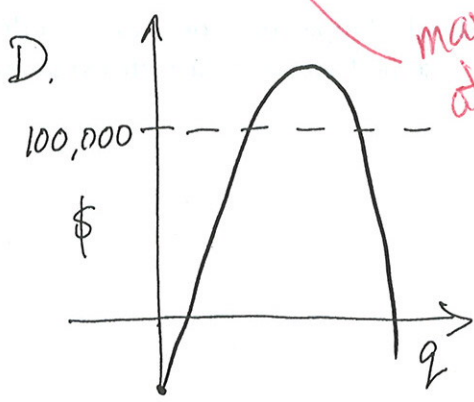
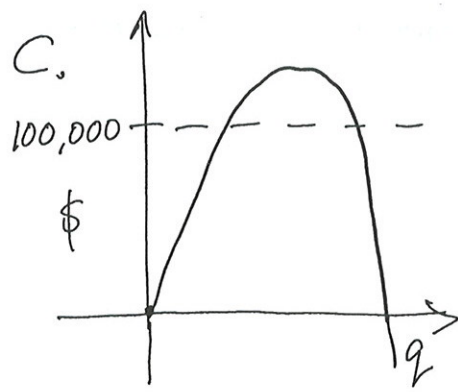
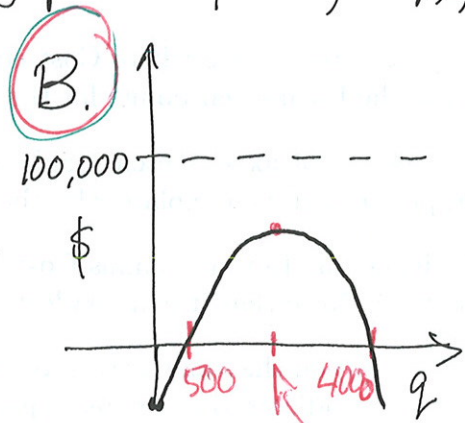
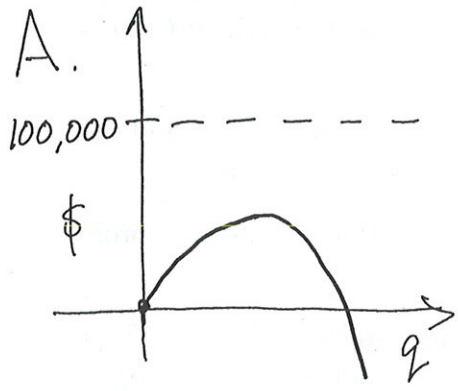
① Maximum revenue is \$100,000 when $q = \underline{2500}$

② Fixed costs are about \$25,000

③ Variable costs are given by slope of $C(q)$ with units: dollars per widget



Q4 For the revenue and cost functions graphed above, what does the graph of profit, $P(q)$, look like?



max profit at $\frac{(4000-500)}{2} + 500 = 2250$ widgets.

E. I am completely lost.

⑤ Indicate the break-even values (including the numbers) on the q-axis.

due to variable costs, max profit occurs at lower q than max revenue.

⑥ For what value of q is the profit at a maximum?

- less than. **A** 2500 **B** more than 2500 **A** less than 2500 D. Not enough info E. lost.