

2. Suppose that the cost function $C(x)$ and revenue function $R(x)$ are given by $C(x) = 2x + 12$, $R(x) = -x^2 + 10x$.

(6 pts) a) Graph both functions on the axes below:

(3 pts) b) Find the minimum break-even quantity.

(3 pts) c) Find the maximum revenue.

(3 pts) d) Find the maximum profit.

