Graphing & Optimizing Profit 5.3 – Maximum Profit



Ex A: Maximizing a Company's Profit

It costs Teleco Inc \$70 to produce each phone, and fixed costs (rent and other costs that do not depend on the amount of production) are \$100 per week. The company's price function is p(x) = 270 - 10x, where p is the price at which exactly x phones will be sold.



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Ex B: Maximizing Profit from MC and MR.

Jim's Discount Lion Cage's CEO, Bair Leah Live, hires an accountant to find his marginal cost and marginal revenue functions. The account find MC(x) = 8000 and MR(x) = 22,000 - 140x, where x is the number of lion cages produced and sold per month. Find the maximum number of lion cages Bair Leah Live should sell to maximize his profit.