



Calculus 1 Workbook

Economics

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MATH

MARGINAL COST, REVENUE, AND PROFIT

- 1. A company manufactures and sells basketballs for \$9.50 each. The company has a fixed cost of \$395 per week and a variable cost of \$2.75 per basketball. The company can make up to 300 basketballs per week. Find the marginal cost, marginal revenue, and marginal profit, if the company makes 150 basketballs.
- 2. A company manufactures and sells high end folding tables for \$250 each. The company has a fixed cost of \$3,000 per week and variable costs of $85x + 150\sqrt{x}$, where x is the number of tables manufactured. The company can make up to 200 tables per week. Find the marginal cost, marginal revenue, and marginal profit, if the company makes 64 tables.
- 3. A company manufactures and sells electric food mixers for \$150 each. The company has a fixed cost of \$7,800 per week and variable costs of $24x + 0.04x^2$, where x is the number of mixers manufactured. The company can make up to 200 mixers per week. Find the marginal cost, marginal revenue, and marginal profit, if the company makes 75 mixers.



