

(092) Math 131:Finite MathematicsQuizTest(1.1-3.2): March.22, 2010

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Contents

Marks: 20; Time: 20 Minutes

NAME:.....

I.D.#:

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SERIAL# SECTION #: (check:
Sec.02B)

02B		7 a	8 a	10 a
		2 m	1 m	3 m

NOTE: SHOW ALL STEPS OF THE SOLUTION.

NO CREDIT FOR ANSWERS WITHOUT COMPLETE SOLUTION.

The questions are not in any order of difficulty at all.

Only the nonprogramable calculators are allowed.

Write the simplified answer of each question at the end of each question.

Q.1. (Marks : 10) .56TB16. Business. A company finds that if it produces and sells q units of a product, its total sales revenue in dollars is

$$200\sqrt{q}.$$

If the variable cost per unit is \$ 4 and the fixed cost is \$ 2400, find the values of q for which

total sales revenue = variable cost + fixed cost.

Q.2. 137T32B16.(Marks : 10) . Demand Equation. The demand (q) per week for a best-selling book is 26000 books when the price (p) is \$ 16 each, and 10000 books when the price (p) is \$ 24 each.

Find the demand equation for the book, assuming that it is linear.