Math 111 B - Autumn 2011 Mid-Term Exam Number Two November 17, 2011

Answers

There were two versions of the exam.

In version A, in problem 1, you sell Objects for \$35.

1. (a) TC(q) = 2.8q + 1120 (b) q = 34.78 (c) MC = 2.8 (d) q = 136.585

2. (a) q = 49.0512 and q = 1630.95 (b) 840 (c) \$62560 (d) MC(q) = 0.2q + 2.1 (e) q = 189.5

3. (a) 27.3607 (b) 19.4444 (c)
$$A(x) = x \left(\frac{10}{\sqrt{x}} + 1\right)$$
 (d) $x = 3.4435$

In version B, in problem 1, you sell objects for \$18.

- 1. (a) TC(q) = 6.8q + 2280 (b) q = 203.57 (c) MC = 6.8 (d) q = 1036.364
- 2. (a) q = 7.5522 and q = 1324.11 (b) q = 665.83 (c) \$ 130000.2 (d) MC(q) = 0.6q + 0.8 (e) q = 498.666
- 3. (a) 36.284 (b) 44.4444 (c) $A(x) = x \left(\frac{10}{\sqrt{x}} + 1\right)$ (d) x = 5.838015