Answers

There were two versions of the exam.

Version A - In problem 1 (a), the increase is from 550 to 900.

1. (a) $30725 (b) $35720 (c) $3

2. (a) several correct answers, including 3.4 (b) several correct answers, including 4.1 to 6.1 (c) at $t = 5.1$ hours (d) at $t = 9.4$ hours

3. (a) $ 12.857 (b) $q = 260$ (c) $1.25 (d) $2.857

4. (a) $q = 4250$ (b) $1420 (c) -$300

Version B - In problem 1, the increase is from 300 to 750.

1. (a) $12750 (b) $1075 (c) $3

2. (a) $t = 2.6$ (b) several correct answers, including 7.8 to 9.8 (c) at $t = 5.1$ hours (d) at $t = 8.1$ hours

3. (a) $6.5217 (b) $q = 350$ (c) $1.212 (d) $4.00

4. (a) $q = 4250$ (b) $900 (c) $1550