

### Answers to Math 111 Winter 2018 Final Problems

- About 26.7 milometers per hour.
  - About 60.6 kilometers per hour.
  - At 1.4 and 3 hours.
  - At about 0.7 hours with approximately 15.5 k,.
  - Approximately from 0.3 to 1.1 and 1.9 to 2.7 hours.
- At 100 Sombreros.
  - \$12,000
  - 6.2 dollars per Libro.
- $SP \approx \$1.25$ ,  $BP \approx \$1.75$ .
  - $TC(100) \approx 494$ ,  $VC(100) \approx 292$ ,  $FC = 200$ .
  - \$2.9
  - 0.2 dollars per Tsanta
  - At about 435 Tsantas the maximum profit is about \$309.
- $MC(q) = 10q + 1.55$  dollars per Koupa.
  - 631 Koupas
  - \$3594.38
  - 22.78 dollars per Koupa
- $p = -0.4q + 53$
  - 35 bags at 39 dollars each
- 67,500
  - 108%
  - 57 minutes.
- When you borrow \$100, You pay back \$120.40, \$120.46 and \$120.26 dollars to Banks A, B and C, respectively.
  - 8.05 years
- \$254,307.45
  - \$485,456.81
  - \$433,626.43