

MATH 111 – FINAL EXAM Answers
Autumn 2018

1. (a) approximately 1 mpm
(b) approximately 1.44 mpm
(c) $h \approx 25.5$
(d) $t \approx 17.5$ and $t \approx 32$
(e) $t \approx 10$, $t \approx 24$, $t \approx 55$, and $t \approx 63$
2. (a) approximately 0.42 dollars per Snarlberg
(b) approximately 1.12 dollars per Snarlberg
(c) approximately 0.46 dollars (or dollars per Snarlberg)
(d) approximately 81 thousand Snarlbergs
(e) approximately 131.1 thousand dollars (or \$131,100)
3. (a) from $q = 55$ to $q = 240$ Kleems
(b) $MR(q) = -0.24q + 57.48$
(c) $q = 173$ Kleems
4. (a) 312 lifts
(b) 57,000 dollars
(c) 1025 dollars per tank
(d) 315 dollars per gym
5. (a) 5.64%
(b) \$7207.21
(c) 7.79 years
(d) 3.08%
(e) \$4368.66
6. (a) Alice
(b) Cecelia
(c) during their 25th year
(d) during their 23rd year
7. (a) \$2645.21
(b) 20 years
(c) \$336234.69