

Math 120 - Autumn 2011
Final Exam
December 10, 2011
Answers

1. (a) The square should have side length $600/17$, and the rectangle should have height $450/17$ and width $900/17$. (b) 5625 square meters
2. 4.490555 feet
3. 10.1757 seconds
4. (a) $h^{-1}(x) = \frac{2x}{14x - 7}$ (b) $f(x) = -2x - 6$ and $f(x) = 2x + 2$
5. (a) 4.677586 hours (b) 11.198008 km
6. (a) $h(t) = \frac{32t+2430}{t+135}$ with today represented by $t = 0$ (b) 9.96211 days after today
7. 138.727 years after 2010
8. 10.933096 meters