

Math 111 Winter 2018, Answer to Midterm II Questions

1. (a) 7 dollars per Blanda
(b) $-4x + 17.98$ dollars per Blanda (note the units hundreds of Blandas for TR)
(c) $3 < x < 6$
(d) \$4500
2. (a) The graph opening up is $y = f(x)$.
(b) $3 < x < 4.5$
(c) 7.125 units
(d) $x = \frac{15 - \sqrt{57}}{4} \approx 1.8625$ and $y \approx 7.2939$
3. 160 Jelly Bags with a maximum profit of \$192,000.
4. (a) $x = 2 \ln \left(\frac{9}{13} \right) \approx -0.7354$
(b) $x = \frac{e^3 - 2}{3} \approx 6.0285$