1. (a) $\sim$ 19 hundred dollars

   (b) $\sim$ 0.65 dollars per Thing

   (c) $\sim$ 12.5 hundred dollars

   (d) $\sim$ 0.60 dollars per Thing

   (e) $q \approx 8.5$ hundred Things

2. (a) $\sim$ 1.25 dollars per month

   (b) $t \approx 1.6$, 2.3, 3.7 months

   (c) There are several correct answers. One is from $t \approx 10.1$ to $t \approx 11.1$ months

3. (a) $t = 2.24$ and $t = 12.76$ seconds

   (b) $t = 7.5$ seconds

   (c) $\dfrac{A(t+5) - A(t)}{5} = 12.5 - t$

   (d) $t = 11.4$ seconds

4. (a) $TR(q) = -1.5625q^2 + 89q$, $TC(q) = 14q + 500$

   (b) $q = 8$, 40 Items

   (c) 18.69 dollars per Item

   (d) 400 dollars

5. (a) 2.3 years

   (b) \$313,104

   (c) \$298,896

   (d) \$269,474

6. (a) Bart's APY is 4.29%, Lisa's APY is 4.24%

   (b) $t = 0.25$ years

   (c) 5.32%

   (d) 23.76%

7. (a) 278 payments

   (b) \$521.53