Version 1: In #1, $TR(q) = -q^2 + 426q$.

1. (a) (3 points) $MR(100) = 225$ dollars per Fleenet
    (b) (5 points) 7794 dollars
    (c) (3 points) from $q = 0$ to $q = 213$ Fleenets
    (d) (5 points) $q = 28.29$ and 397.71 Fleenets

2. (a) (3 points) $t = 75$ minutes
    (b)   i. (4 points) $\dfrac{R(t+3) - R(t)}{3} = -0.02t + 1.97$
         ii. (3 points) from $t = 48.5$ to $t = 51.5$
    (c)   i. (3 points) $G(t) = 1.8t$
         ii. (4 points) $t = 1.63$ and 18.37 minutes

3. (a) (4 points) $0.75x + 0.2y \le 600$ and $0.05x + 0.1y \le 144$
    (b) (2 points) $P(x, y) = 0.9x + 2y$
    (c) (8 points) Vertices: $(0, 0)$, $(0, 1440)$, $(800, 0)$, $(480, 1200)$
    (d) (3 points) $2880