

Chapter 1 – Functions: Review

Task 1: Pg. 60 #1 to 8, 9bde, 10, 11a, 12, 13, 16, 17

Correction: #3 the range should be

$$\{y \in \mathfrak{R} \mid y \geq -1\}$$

Correction:

#17a the function should be:

$$f(x) = \begin{cases} 30, & \text{if } 0 \leq x \leq 200 \\ 24 + 0.03x, & \text{if } x > 200 \end{cases}$$

Task 2: Pg. 62 Practice Test. (Allow 30 mins max)

Corrections:

#7a should be $(-2, 17)$

#9 should be:

a) \$11500

b) $T(x) = \begin{cases} 0.05x & \text{if } 0 \leq x \leq 50000 \\ 0.12x - 3500 & \text{if } x > 50000 \end{cases}$ #10c should be: there should be a square

bracket beside one of the zeros

#10d should be:

The range is $\{y \in \mathfrak{R} \mid 1 < y < 2, y \geq 3\}$