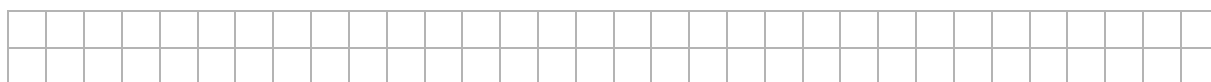
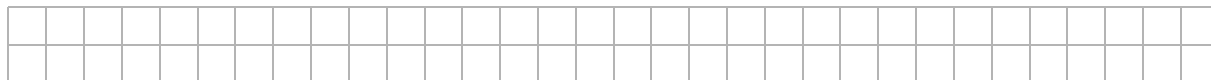


- (d) A simpler function that could also be used to model the number of days needed to attain x wpm is $p(x) = 1.5x$.
 Draw, on the diagram above, the graph of $p(x)$ for $0 \leq x \leq 70$, $x \in \mathbb{R}$.



- (e) Let $h(x) = p(x) - t(x)$.

(i) Use your graphs above to estimate the solution to $h(x) = 0$ for $x > 0$.



(ii) Use calculus to find the maximum value of $h(x)$ for $0 \leq x \leq 70$, $x \in \mathbb{R}$.
 Give your answer correct to the nearest whole number.

