Quiz 3

Q7. If $Y = X_1 + X_2 + \ldots + X_n$ and $X_i \sim \text{Poisson}(\lambda)$, then

$Y \sim \text{Poisson}(n\lambda)$.

Part 2:

$\lambda_A = 2.3$ for $t_A = 2$ hours

$t_B = 30$ minutes $= 1/4\, t_A$

So $\lambda_B = 1/4\, \lambda_A = \frac{23}{10} \cdot \frac{1}{4} = \frac{23}{40}$

$= 0.575$