

Question 1 - Ryden 2.2

- +8 for having the correct equation
- +1 for justifying equation
- +1 for correct number

Notes:

I'm fairly lenient with the "correct number" points - if the numbers are written down correctly in the equation but the final answer is wrong, then I'll typically award full points. The exception here is if the calculation gave an unreasonable answer.

Question 2 - Ryden 2.3

- +3 for $N_{\text{photons/sec}} = nAv$
- +3 for $P = N_{\text{photons/sec}} * \text{Energy/photon}$
- +3 for $t = cmT/P$
- +1 for correct numbers

Notes:

- +1/part if a reasonable attempt was made to obtain equation
- lots of unit issues.. keep track of units!

Question 3

- a. +1 for right answer
- b. +1 for right answer
- c. +3 for plot, +1 for slope, +1 for error on slope
- d. +2 for plot, +1 for comparing H_0 to current value