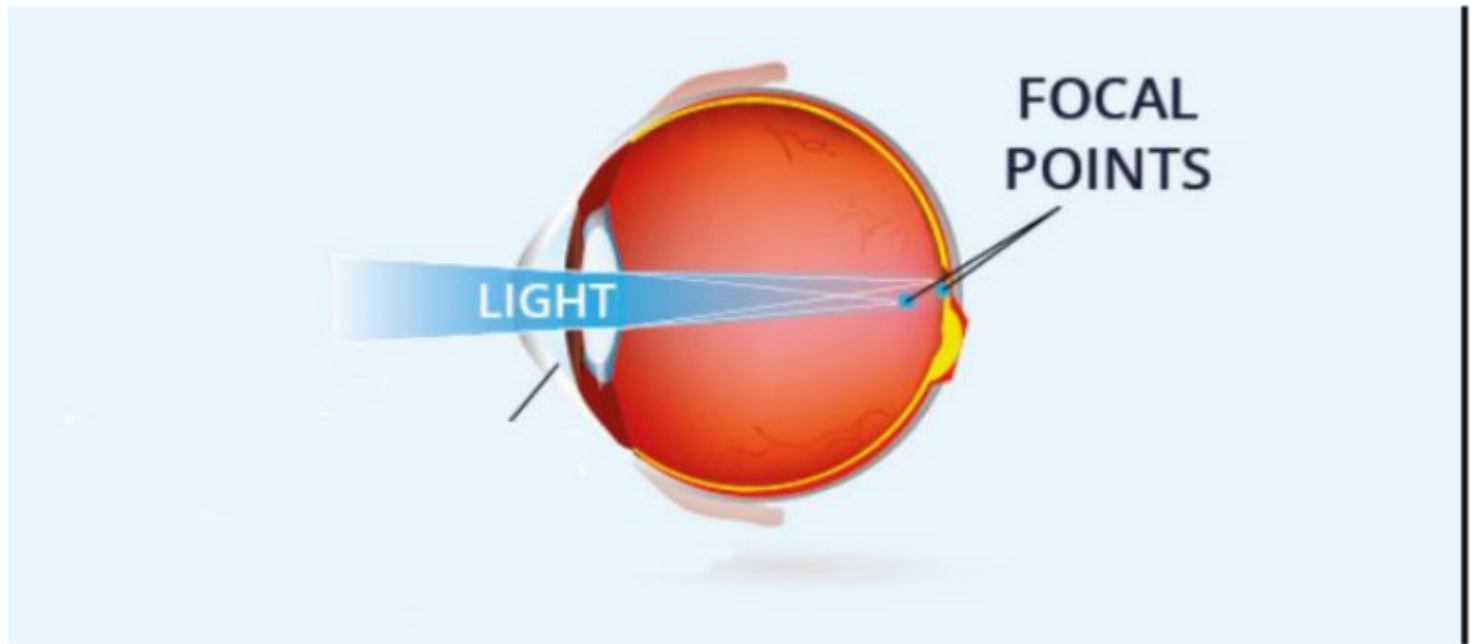


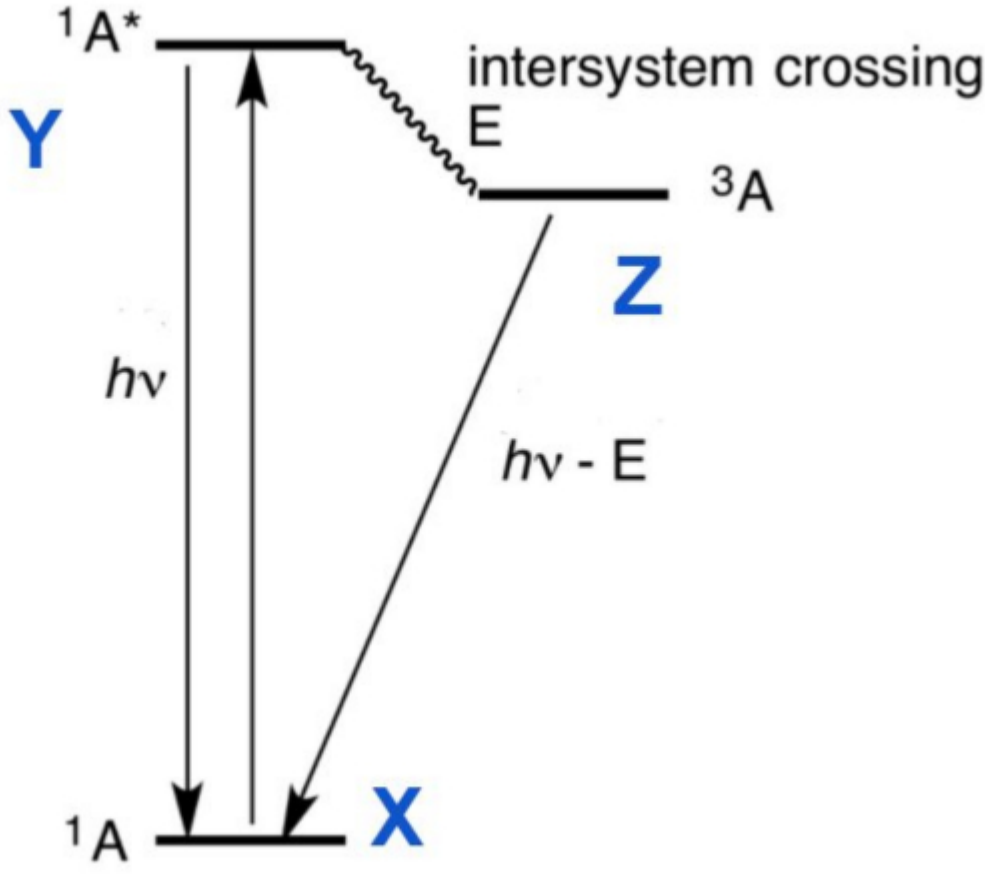
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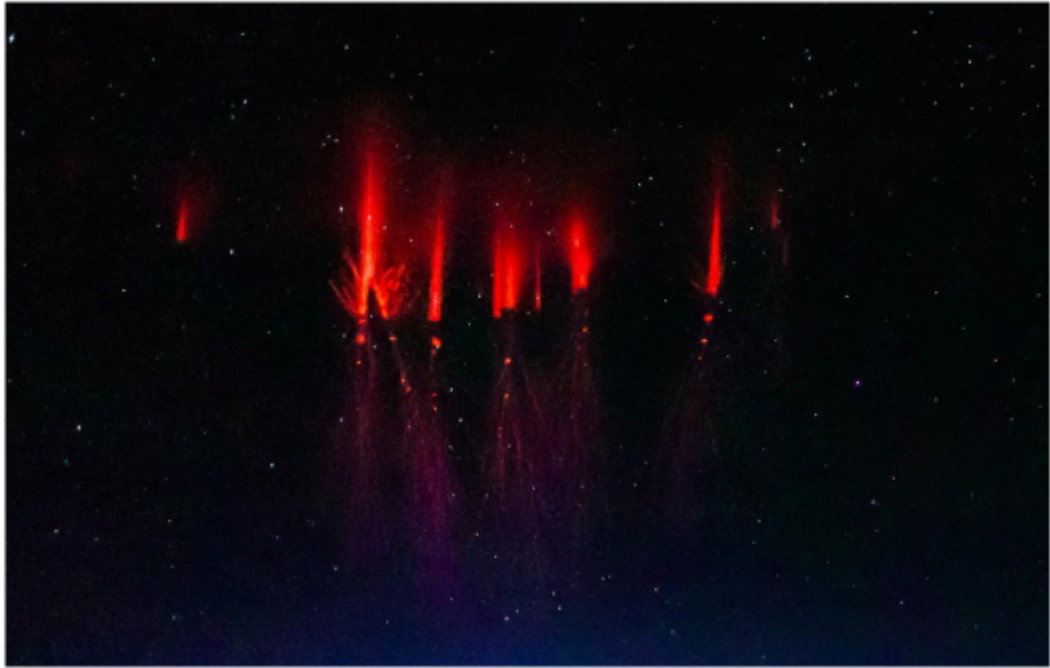
Bonus 5:



Bonus 6:



Bonus 7:



Bonus 8:

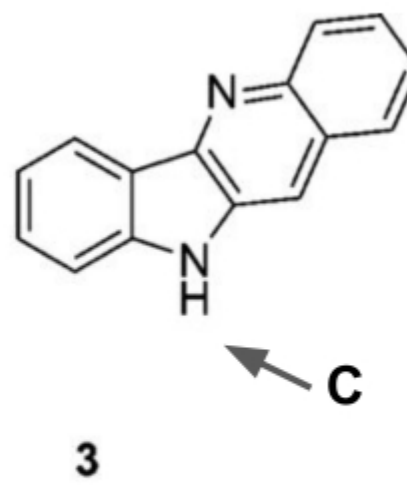
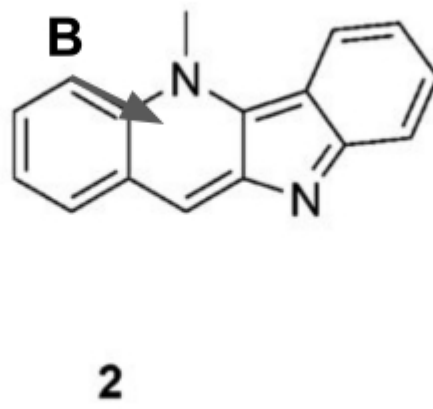
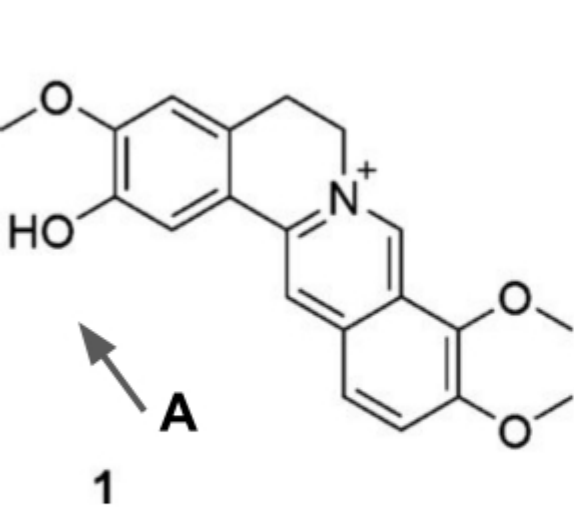
$$\begin{bmatrix} \nu_e \\ \nu_\mu \\ \nu_\tau \end{bmatrix} = \begin{bmatrix} U_{e1} & U_{e2} & U_{e3} \\ U_{\mu1} & U_{\mu2} & U_{\mu3} \\ U_{\tau1} & U_{\tau2} & U_{\tau3} \end{bmatrix} \begin{bmatrix} \nu_1 \\ \nu_2 \\ \nu_3 \end{bmatrix}$$

Bonus 10:

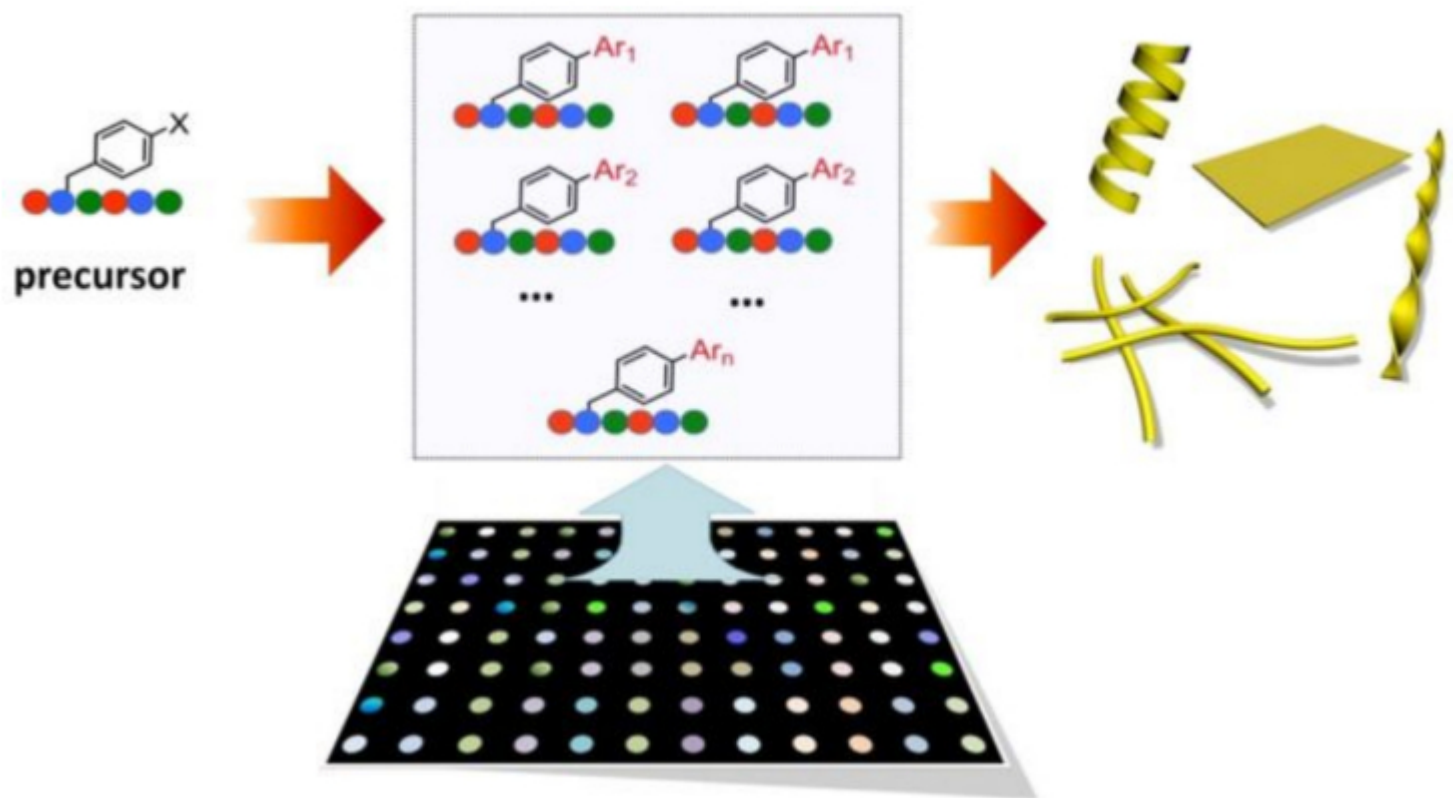
$$B_1 \rightarrow B_2 + \ell + \bar{\nu}_l,$$

$$B_2 + \ell \rightarrow B_1 + \nu_l,$$

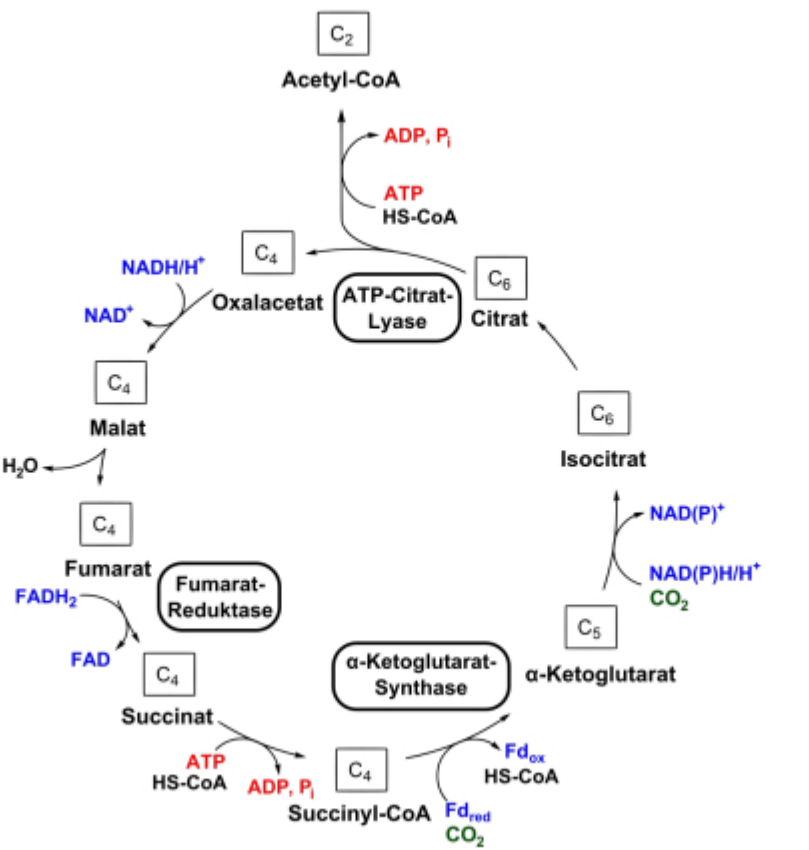
Bonus 12:



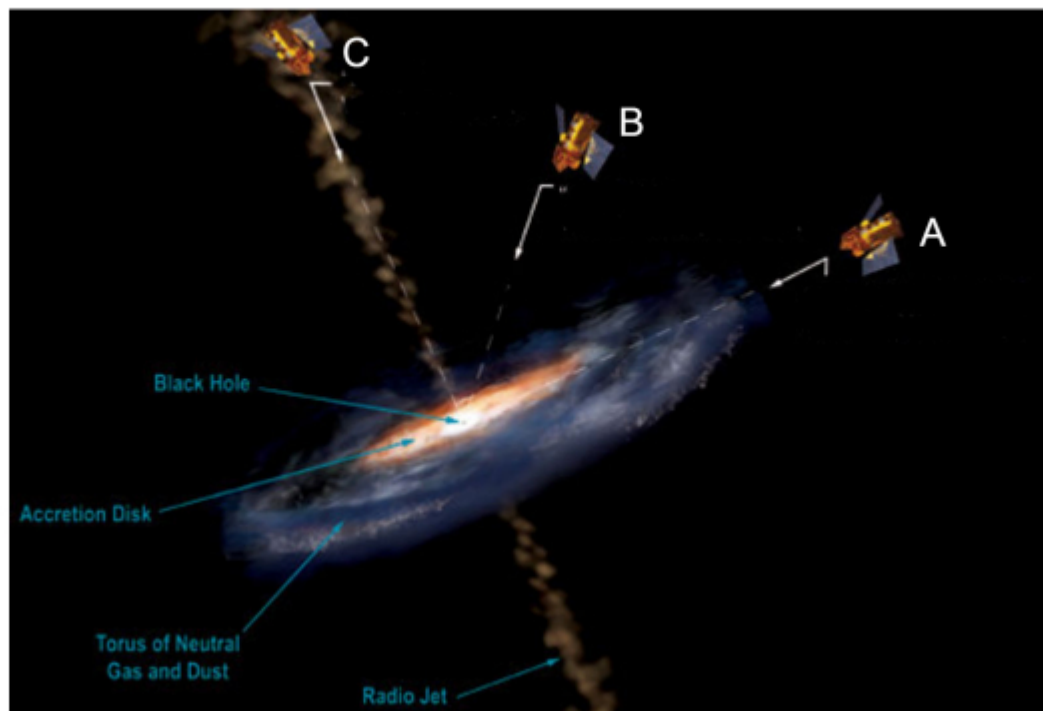
Bonus 16:



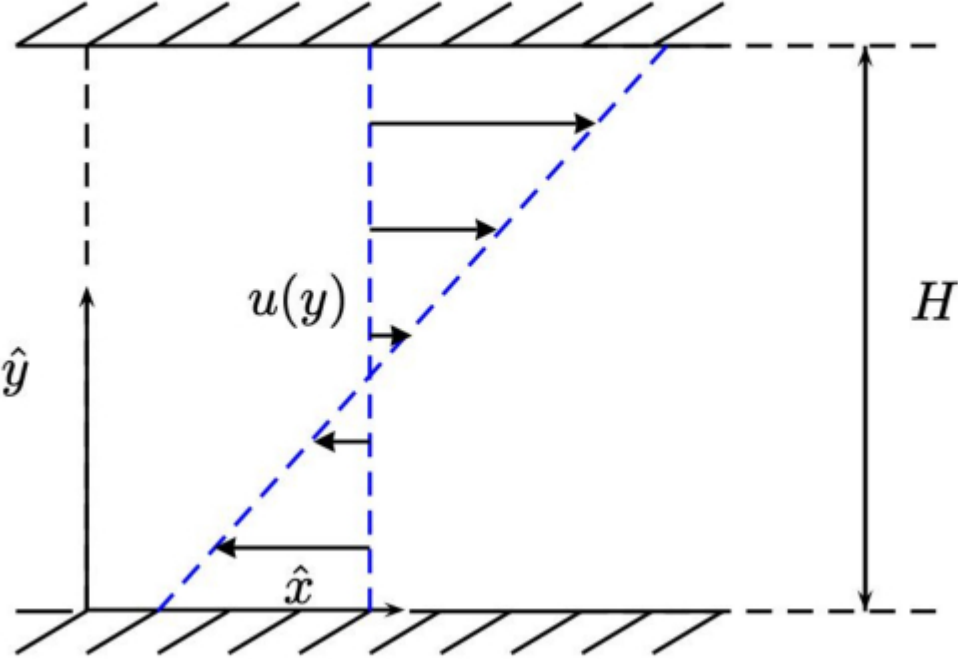
Bonus 17:



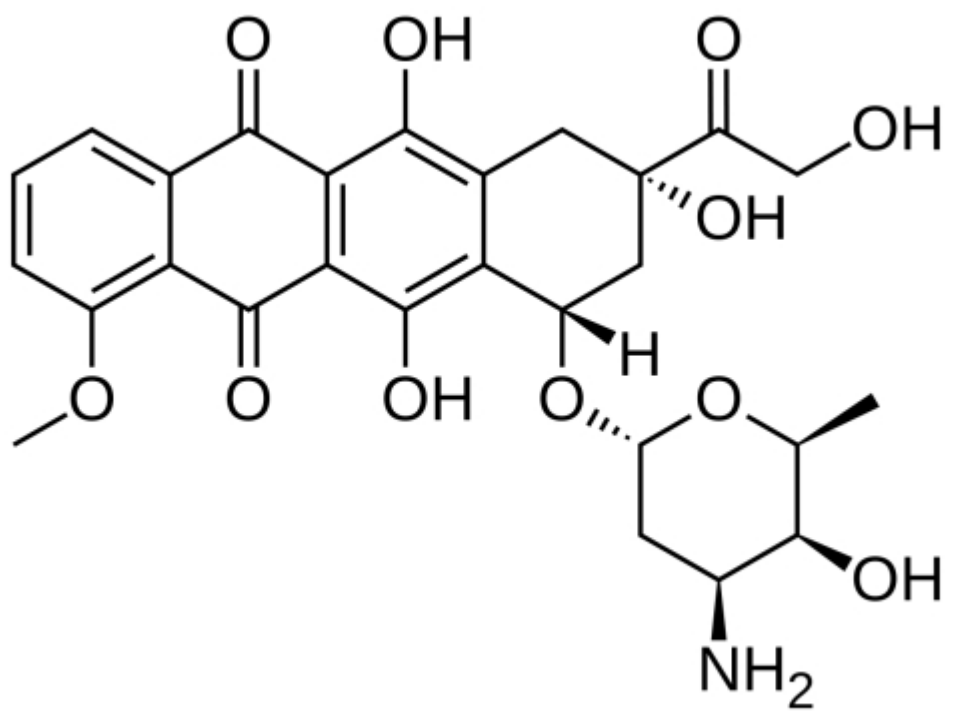
Bonus 19:



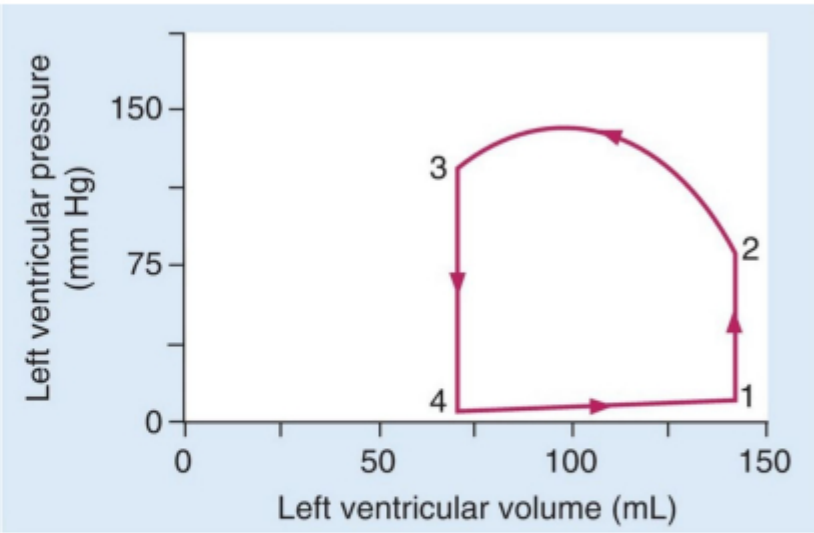
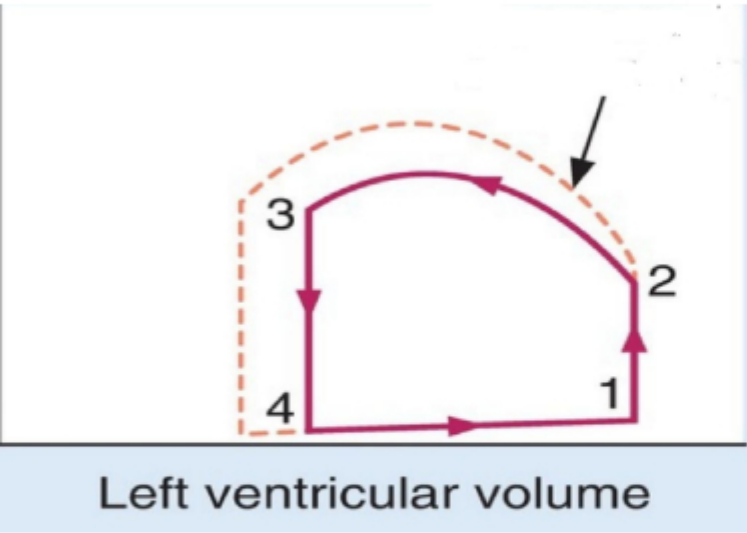
Bonus 20:



Bonus 22:



Bonus 23:



Bonus 24:

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