

# SNC 2P - 2020-04-14

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Hello All:

I hope you have had a good weekend.

Before you read below, please check in using this link ==> <https://forms.office.com/Pages/ResponsePage.aspx?id=GAmprLRReCU2WCd35yhGvQuASPjs6aYVfk-EAh60FvohUREhXQ01RMFhBOE5DUUEXmkVVS1VKRDBYMCQIQCN0PWcu>

The task I have in mind today is difficult and I am not going to evaluate you on it. I guess that means that I won't know if you have done it or not. It is what we would have started on after the March break if we were still in school. Give it a try and please note that I have included video links that will help.

<https://www.youtube.com/watch?v=JjbQo-KuVeE> and <https://www.youtube.com/watch?v=QlrrN9xTz50>

Go to my website and find the optics unit. There are three items in the left hand column that I have coloured red. Please look through these. Each link has several pages, with each new page adding more lines and information. You will need to scroll down to see what happens. Please note that any incident ray will obey the laws of reflection and create a reflected ray that will make an equal angle to a normal that can be drawn on any point of the curved surface of the mirror.

All three links are using the four ray method of finding an image in a concave or convex mirror. The tip of the arrow image is located where the rays intersect. If the reflected rays intersect the image is REAL and will be located in front of the mirror. If the rays do not intersect, the REFLECTED RAYS must be "dotted back behind the mirror". Where these dotted rays intersect is the location of the tip of the arrow and the image is now VIRTUAL (OR IMAGINARY) and will be behind the mirror. This image is imaginary because it appears to be behind the mirror and therefore is not based on real light, but rather a perception of how light appears to originate behind the mirror (this is not possible because light cannot shine through a mirror).

There is a fourth red link to be found in the "Worksheets Assignments and Labs" column. This includes a worksheet and its answers. If you are feeling ambitious and have a printer, print this off and try it and check against the answers as you go. THIS IS DIFFICULT!

Good Luck. Tomorrow there will be easier work that will lead to a quiz on Thursday.

Stay Safe

Mr. Schlenker

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