

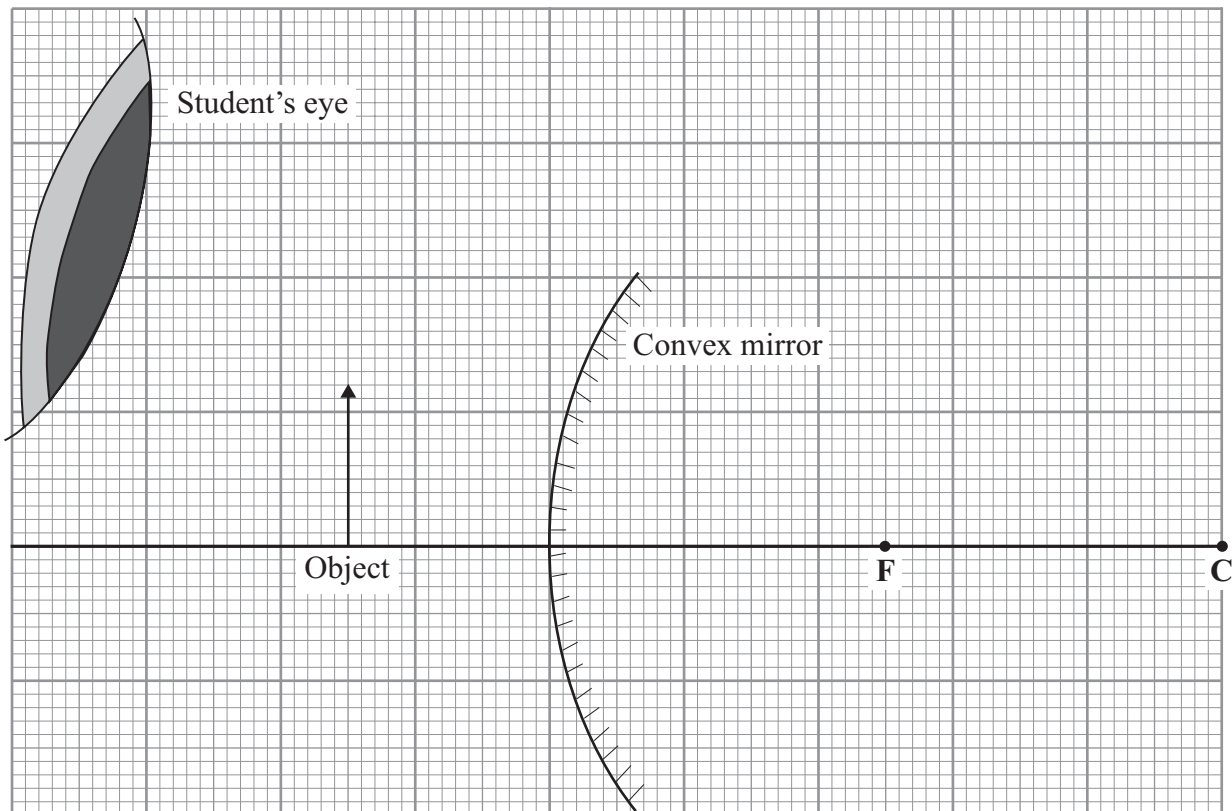
- 4 A student investigates the formation of images by a convex mirror.

In the mirror, she can see the image of an object placed in front of the mirror.

In the diagram, **F** is the principal focus of the mirror and **C** is the centre of curvature of the mirror.

- 4 (a) On the diagram, use a ruler to draw **two** rays from the top of the object which show the position of the image and how the student sees the image.

Mark the direction of the rays at each stage.



(4 marks)

- 4 (b) The image is a virtual image.

How can you tell from the rays you have drawn on the diagram that the image is a virtual image?

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(1 mark)

