

Diverging Lens Ray Tracings

Do the ray tracings for all five possible object locations for a diverging lens. Label each image (if any) as upright/inverted, enlarged/diminished, real/virtual.

- Principal rays: (1) parallel \rightarrow away from primary F
(2) through center of lens
(3) towards secondary F \rightarrow parallel

6. Far away



7. Just outside F

This block contains a large screenshot of a document page. The page has a dark purple background. It features three ray tracing diagrams for a diverging lens, each showing an object at a different position relative to the primary focal point (F). The diagrams are labeled on the left as 'Far away', 'Just outside F', and 'Just inside F'. Each diagram shows the principal axis, the lens, the primary and secondary focal points, and the three principal rays. The resulting images are virtual, upright, and diminished. On the right side of the screenshot, there are some partially visible text elements: '9. J', '10.', and '10.06.14'.