

DRAWING-BOOK EXERCISE III.

Model Drawing from the Solid.

DIRECTIONS FOR DRAWING A CONE FROM THE SOLID. — On the left-hand half of p. 3 of the drawing-book, a cone is to be drawn from the solid. Place a cone in sight of all the pupils, above the level of their eyes, with both its base and side plainly visible. Draw the cone in the order that Fig. 1, p. 269, was drawn: (1) the axis; (2) the base; (3) the sides. If the base of the cone is horizontal, then the axis must be drawn vertical; but, if the former is oblique then the latter must be drawn oblique also.

DIRECTIONS FOR DRAWING A CYLINDER FROM THE SOLID. — The right half of the third page is to be filled with the drawing of a cylinder from the solid. Place a cylinder in sight of all the pupils, above the level of their eyes, and in a vertical position, as in Fig. 2. The lower end will then be visible; the upper, invisible. The latter, being viewed less obliquely than the former, should be represented by a broader ellipse, — just the reverse of what is seen in Fig. 2. Draw in the same order that Fig. 2 was drawn.

Each pupil must draw the cone just as he sees it. To one the base will appear more nearly round than to another, and so must be represented by a broader ellipse; while the axis, if oblique, will appear more oblique to one than to another, and must be so represented. Yet each can best draw what he sees by following the order indicated. See that each pupil, before he begins to draw, has a correct idea of what is required. Question, explain, refer to Fig. 1. If the pupils understood what they were really about when they copied Fig. 1, they will have little trouble with this. Much of this will apply to the drawing of the cylinder.