Q. Make 3D solid model of a doctor stool, whose orthographic views are in 3rd angle of projection given in figure below. Then make its top view and sectional front view.

For the given doctor stool, spline curve can be obtained by using the following equations:

Starting point: A (0, 0)

$y = 0$;   for $0 \le x \le 10$
$y = -x + 10$;   for $10 \le x \le 20$
$x = 20$;   for $-10 \ge y \ge -60$
$y = -60$;   for $20 \le x \le 50$
$x = 50$;   for $-60 \ge y \ge -90$