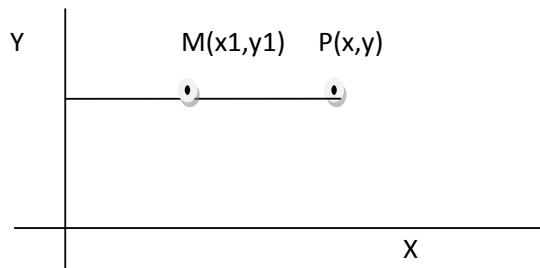


Find the locus of a point equidistant from a point(2,4) and the y axis.

Answer:



The point situated equidistance from a point $P(x,y)$ and the y axis located in the line connected a point P and y axis by the right angle (the nearest distance), according this line is parallel to x-axis and all points of it have equal coordinate Y . A distance from M to P equal to distance from M and y axis according this the X coordinate of M is as $\frac{1}{2}X$ of coordinate P

The point situated equidistance from a point P have coordinates:

$$M(x_1, y_1)$$

$$y_1 = y$$

$$x_1 = \frac{1}{2}x;$$

Answer: point- (1, 4)