MARKS:- 10   Duration:- 30 minutes

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Answer the following: (2 mks each)

1) If the distance between (a, 6) and (3,2) is 5, find a.

2) Find the equation of the line passing through the origin and
   parallel to a line with slope -1/3 ?

3) A(2,4) is a point and line AB is perpendicular to x-axis. If the y-coordinate
   of B is -5, find the x-coordinate of B.

4) Find the slope of the line making equal positive intercepts on the axes.

5) Represent $x + 3y \geq 3$

   $2x + y \geq 2$

   $x \geq 0, y \geq 0$ graphically.

**** best of luck *****