

## Maths : coordinate Geometry

Please refer Pg.No. 228 to 233. In the maths book.

1. State a) . Equation of a line parallel to the line .  
b) Equation of a line perpendicular to the line.  
c) slope of a straight line.
2. Show that the straight lines  $2x+3y-8=0$  and  $4x+6y+18=0$  are parallel.
3. Find the equation of a straight line parallel to y axis and passing through the point of intersection of the lines  $4x+5y=13$  and  $x-8y+9=0$ .
4. Check whether the given lines are parallel or perpendicular.  
 $x/3+y/4+1/7=0$  and  $2x/3+y/2+1/10=0$ .
5. A(-3,0) , B(10, -2) and C(12,3) are the vertices of  $\triangle ABC$ . Find the equation of the altitude through A and B.
6. Find the equation of a straight line through the point of intersection of the lines  $8x+3y=18$ ,  $4x+5y=9$  and bisecting the line segment joining the points (5,-4) and (-7,6).