Higher Straight Line

Official Homework

Q1. Find the equation of the line through (-3, 2) and parallel to the line $2x + 3y + 4 = 0$. **(3)**

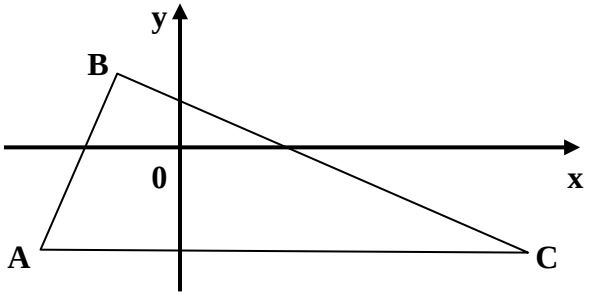
Q2. Find the angle which the line joining the points (0, 0), ($\sqrt{3}$, 1) make with the positive direction of the x-axis. **(2)**

Q3. Find the equation of the median AD of triangle ABC where the coordinates of A, B and C are (-2, 3), (-3, -4) and (5, 2) respectively. **(3)**

Q4. Find the equation of the perpendicular bisector of the line joining A(2, -1) and B(8, 3). **(3)**

Q5. Prove that the points A(-2, 1), B(-1, 0) and C(7, -8) are collinear. **(3)**

Q6. A triangle ABC has vertices A(-4, -3), B(-2, 1) and C(6, -3)



(a) Show that the triangle ABC is right angled at B. **(3)**

(b) The medians AD and BE intersect at M.

(i) Find the equations of AD and BE. **(6)**

(ii) Find the coordinates of M **(2)**

Total 25 marks

Remember

1. Use your notes
2. Look out for **keywords**
3. **CLEAR** working
4. Check ! does your answer make sense
5. Double check before handing in

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Complete your corrections for each question below: