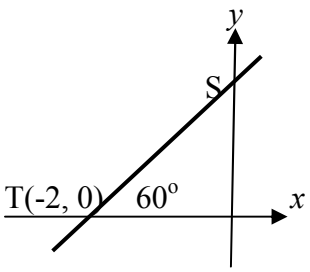
Higher_Straight_Line

(Non – Calculator)

1. Find the equation of the line which passes through the point (-1, 3) and is parallel to the line with equation $4x + y - 1 = 0$ *(2)*

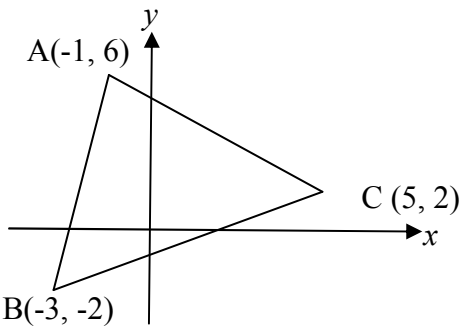
2. Triangle ABC had vertices A(3, 4), B(-4, -1) and C(6, -3).
Find the equation of the median through the point A *(3)*

3. Show that the points P(5, 1), Q(-1, -2) and R(-3, -3) are collinear and write down the ratio that Q divides RP *(4)*

4. 

Find the equation of the line ST, where
T is the point (-2, 0) and angle STO is 60^o *(3)*

5. Triangle ABC has vertices A(-1,6), B(-3, -2) and C(5, 2).
Find



a) the equation of p, the median from C. *(3)*

b) the equation of q, the perpendicular bisector of BC *(4)*

c) The coordinates of the point of intersection of the lines p and q. *(1)*

TOTAL (20)