(C1-5.4) Name:

Homework Questions 4 – Finding the Equation of a Line given Two points

1. Find the equation of the line AB which passes through the points A(3,7) B(2,5)

Ans

2. Find the equation of the line CD which passes through the points C(9,8) D(3,5)

Ans

3. Find the equation of the line EG, given the points E(2,10) F(3,15) and G(1,6)

Ans

4. The line that passes through (10, 5) and (4,1) meets the x-axis at point H. Find the coordinates of point H.

Ans

5. The line that passes through (1,10) and (3,7) meets the y=axis at point J. Find the coordinates of point J.

Ans

6. The lines y=x-3 and y=2x-6 intersect at point T. Point W has coordinates (10,-2). Find the point of intersection of the two lines (T) and hence find the equation of the line joining T and W.

Ans

7. Find the equation of the line that cuts the x-axis at 4 and the y-axis at -2.

Ans

8. The vertices of a triangle ABC have coordinate A(3,5) B(4,8) and C(6,12). Find the equations of the sides AB and BC

Ans