Equation of the straight line Questions part3

1. a) Determine the values of m and c if the straight line y= mx + c passes through the point (2, −9) and has a gradient −8. b) State the particular equation of the straight line.

2. a) Determine the values of m and c if the straight line y= mx + c passes through the point (1, − 3) and has a gradient 9. b) State the particular equation of the straight line.

3. a) Determine the values of m and c if the straight line y= mx + c passes through the point (2, 9) and has a gradient 10. b) State the particular equation of the straight line.

4. a) Determine the values of m and c if the straight line y= mx + c passes through the point (3, − 3) and has a gradient −5. b) State the particular equation of the straight line.

5. a) Find the values of m and c if the straight line y= mx + c passes through the point (1, −5) and has a gradient −2. b) State the particular equation of the straight line.

6. a) Find the values of m and c if the straight line y= mx + c passes through the point (−3, − 1) and has a gradient 5. b) State the particular equation of the straight line.

7. The end-points of a straight line are C(9, 6) and D(−9, 2). Find

(i) the length of CD

(ii) the gradient of CD

(iii) the mid-point of CD

(iv) the intercept of CD on the y-axis

(b) Hence write down the particular equation for the straight line CD.

8. The end-points of a straight line are G(1, 1) and F(3, −7). Find

(i) the length of GF

(ii) the gradient of GF

(iii) the mid-point of GF

(iv) the intercept of GF on the y-axis

(b) Hence write down the particular equation for the straight line GF.