

(C1-5.2a) Name:

Homework Questions 2 – Finding the Gradient of a Line given Two points

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

Ans 2

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

Ans 0.5

3. Find the gradient of the line EF which passes through the points E(4,2) and F(3,5)

Ans -3

4. Find the gradient of the line GH which passes through the points G(2,7) and H(1,4)

Ans 3

5. The line joining I(a,10) and J(1,6) has a gradient of 4. Work out the value of a.

Ans 2

6. The line joining K(2b,-3) and L(2,7) has a gradient of -1. Find the value of b.

Ans 6

7. The line joining M(a,7) to N(3,4) has a gradient of 1. Form an equation and solve it to work out the value of a.

Ans 6

8. The line joining P(f, -2f) and Q(10,10) has a gradient of 3. Find the value of f

Ans 4

9. Are the points R(1,1) S(5,13) and T(-3,-11) collinear? Prove it

Ans $m_1 = 3$ $m_2 = 3$

10. Show that the points V(2,3), W(4,8) and X(8,18) are collinear?

Ans $m_1 = 2.5$ $m_2 = 2.5$

