(C1-5.2)  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 |
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2. Find the gradient of the line CD which passes through the points C(9,8) and D(3,5)

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

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

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

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

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

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

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

| Ans |
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