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Simultaneous equations graphically exam questions

(I) GCSE Mathematical number > Algebra and Graphs > Geometry > Mensuration > Coordinate geometry > Trigonometry > vectors, Stencies > Transformations > Probability > Basic probability Additional probability Statistics > Past Paper Questions Complete Past Paper Exam > It is possible to solve lineal simulant equations with graph by using the graph so that it is made at the point of intersection. Example: By drawing their graphs, for x values between -1 and 4, on the same different icons, find a solution for the two simultaneous equations below.

$y=2x-5$ and $y=-x+4$ Step 1: Plot both straight line graphs on the same axes. Step 2: Find where the graphs are cut. As we can see, these straight lines cross to 1 point (surrounded in red). The coordinates of this point (3, 1) provide a solution to this problem.

Therefore, the solution $x=3, y=1$. Similar to lineane simulated equations, we can also solve the simulged equation by finding an intersection, but this time there are two solutions. Example: By designing your graphs on the same exams, find a solution for the two simultaneous equation below.

$y=x+2$ and $x^2+y^2=100$ Step 1: Plot both a straight line graph and a circular graph on the same axes. (Revise plotting straight line grafs here) Step 2: Find where the graphs are being shinged (circulating in green). Since it is a lineana and not a lineano problem, there will be more than 1 intersection. In that case, on 2 May 2009, the European Commission will be able to As we can see, the graphs are at the following coordinates: (6,8) and (-8, -6) Therefore, there are two solutions to the equation $x=6, y=8$ and $x=-8, y=-6$ So, we want 3 points to plot each row. Subbing in some x-values in the first equation, We get $x=-2$ gives $y=-2+1=5$ $x=0$ gives $y=-2+0=1$ $x=3$ gives $y=-2+3=1$ So, our 3 coordinates for the plot are (-2, 5), (0, 1), (3, -5) Then, the same for the second equation, we get $x=-2$ gives $y=-(-2)-1=1$ $x=0$ gives $y=-(-0)-1=-1$ $x=3$ gives $y=-(-3)-1=-4$ So, our 3 plot coordinates are (-2, 1), (0, -1), (3, -4) Planning these points and drawing lines, we get the graph shown below. As we can see, there are coordinates where the lines are crossed (2, -3). Therefore, the solution $x=2, y=-3$ Before we can break all the points, we need to rearrange the second equation to be in a format that can be used. So, subtracting $3x$ from both sides, we get $2y=-3x-3$ Then, sharing both sides with 2 we get the desired format: $y=-1.5x-1.5$ Now we have ranked it, we want 3 points to plot each line. Subbing in some x values into the first equation, we get $x=-3$ gives $y=2+(-3)=-1$ $x=0$ gives $y=2+0=2$ $x=2$ gives $y=2+2=6$ So, Our 3 plot coordinates are (-3, -4), (0, 2), (2, 6) A to the same for (rearranged) other equations, we get $x=-3$ gives $y=-1.5(-3)-1.5=3-1.5=1.5$ $x=1$ gives $y=-1.5(1)-1.5=-3$ So, Our 3 plot coordinates are (-3, 3), (0, -1.5), (1, -3) Plotting this point i of the twing line, we have obtained a graph shown below. As we can see, there are coordinates where the lines are crossed (-1, 0). Therefore, the solution $x=-1, y=0$ The procedure for doing this will be exactly the same as the last one with one additional step here at the beginning. The second equation is written in an unusual format, and in order to replace the x values in this, we must have it written in the form $y=...$ So we have to rearrange! First, subtract x from both sides to get $3y=x-4$ Then, divide both sides by 3 to get $y=-\frac{1}{3}x-\frac{4}{3}$ Yikes, it's quite embarrassing. It's okay, we have a calculator. Remember that we only need 3 points, so try to replace the various x values with a calculator until you get some nice whole number answers (just to make the intrigue easier). In doing so, we get $x=-4$ gives $y=-\frac{1}{3}(-4)-\frac{4}{3}=\frac{4}{3}-\frac{4}{3}=0$ $x=-1$ gives $y=-\frac{1}{3}(-1)-\frac{4}{3}=\frac{1}{3}-\frac{4}{3}=-1$ $x=2$ gives $y=-\frac{1}{3}(2)-\frac{4}{3}=-\frac{2}{3}-\frac{4}{3}=-2$ So, Our 3 coordinates for the plot is (-4, 0), (-1, -1), (2, -2) A for the second equation, our three y values will be $x=-4$ gives $y=-4+2=-2$ $x=0$ gives $y=0+2=2$ $x=2$ gives $y=2+2=4$ So, Our 3 plot coordinates are (-4, -2), (0, 2), (2, 4) Plotting this point i of the t-pressure line, we have obtained the graph shown below. If we look at where the graphs cross, we can see that - while the coordinates are not integers - the point is halfway between -2 and -3 on the x-axis and halfway between 0 and -1 on the y-axis. The coordinates are therefore: (-2.5, -0.5), so the solution is $x=-2.5, y=-0.5$ NOTE: This will only be clear if the graphs are plotted as accurately as possible. Rough sketches of lines won't give you an accurate solution. Practice the questions given on the worksheet about simultaneous equations for graphing. The questions are based on linear equation graphs on the coordinate graph. When we draw two simultaneous linear equations on a plane, there are three possible results: (i) The graph lines are crossed only once, and then we get a unique solution. (ii) The graph lines never touch each other, then we will not get a solution. (iii) The graph lines lie on top of each other, and then we get an infinite solution.1. Draw a graph of the following simultaneous linear equations and solve them graphically. (i) $x+y=5$ and $x-y=0$ (ii) $x+y=0$ and $2x-y=9$ (iii) $3x-4y=15$ and $5-2y=11$ (iv) $3x-y=2$ and $2x-y=3$ (v) $2x-3y=4$ and $3y-x=4$ (vi) $-3y=-9$ and $6x+18=9y$ (vii) $x+3y=4$ and $3x-y=2$ (viii) $5x-y=3$ and $2x+y=5$ (ix) $x+y+3=0$ and $x+3y-1=0$ (x) $x+y+6=0$ and $2x-3=0$ (xi) $x+y=4$ and $2x-y=2$. (a) Solve the next system of linear equations graphically $2x+y-5=0$ and $x+y-3=0$. (b) Also look for points where the graph lines correspond to the y. 3 axis. Graphically, show that the simultaneous equations have $2x+y=6$ and $6x+3y=18$ infinitely large solutions. 4. Graphically show that concurrent equations $2x+3y=4$ and $4x+6y=12$ non-cons. 5. Graphically show that the simultaneous lineanic equations $x-2y=2$ and $4x-2y=5$ are consistent. The answers for the worksheet in the concurrent equations are listed below to check the exact answers of the above questions using graphs to solve equation systems. Answers: 1. (i) $x=3$ and $y=2$ (ii) $x=3$ and $y=-3$ (iii) $x=-1$ and $y=3$ (iv) $x=-1$ and $y=-5$ (v) $x=8$ and $y=4$ (vi) No solutions, S'to both lines parallel (vii) $x=1$ and $y=1$ (viii) $x=2$ and $y=1$ (ix) $x=-5$ and $y=2$ (x) $x=-3$ and $y=-9$ (xi) $x=0$ and $y=0$ (xii) $x=2$ and $y=2$. (a) $x=2$ and $y=1$. (b) (0, 5) and (0, 3) Math Home Work

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