Simultaneous Equations and Graphs

Examples:

1a. On the same axes, draw the graphs of and

1b. Use your graph to write down the solutions to the simultaneous equations

1c. What algebraic method could we have used to show the graphs would have intersected twice?

Example 2

a) On the same axes, draw the graphs of:

b) Prove algebraically that the lines never meet

Question: The line with equation meets the curve with equation at exactly one point. Given that is a positive constant:

a) Find the value of .

b) For this value of , find the coordinates of this point of intersection

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