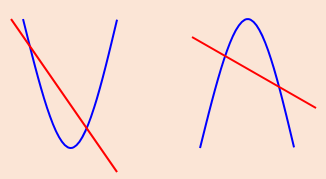
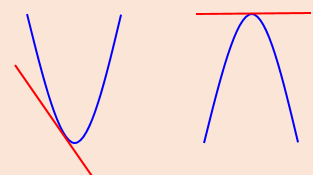
**3C Simultaneous Equations Graphically (With the Discriminant)**

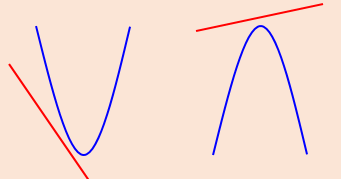
1. Draw the graphs of the following equations and use it to write down their solution:

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Notes on the discriminant:







1. The line with equation meets the curve with equation

at exactly one point. Given that is a positive constant:

1. Find the value of
2. For this value of , find the coordinates of the point of intersection