**Discriminant**

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| Intro | The Discriminant: |  |
| 1 | 1 Real roots and distinct roots | Curve cuts line at 2 points |
| 2 | 2 Real roots and equal roots | Curve is at tangent at line |
| 3 | 3 No Real roots | Curve is does not meet line |
| 4 | 4 Real roots | Lines meets curve |