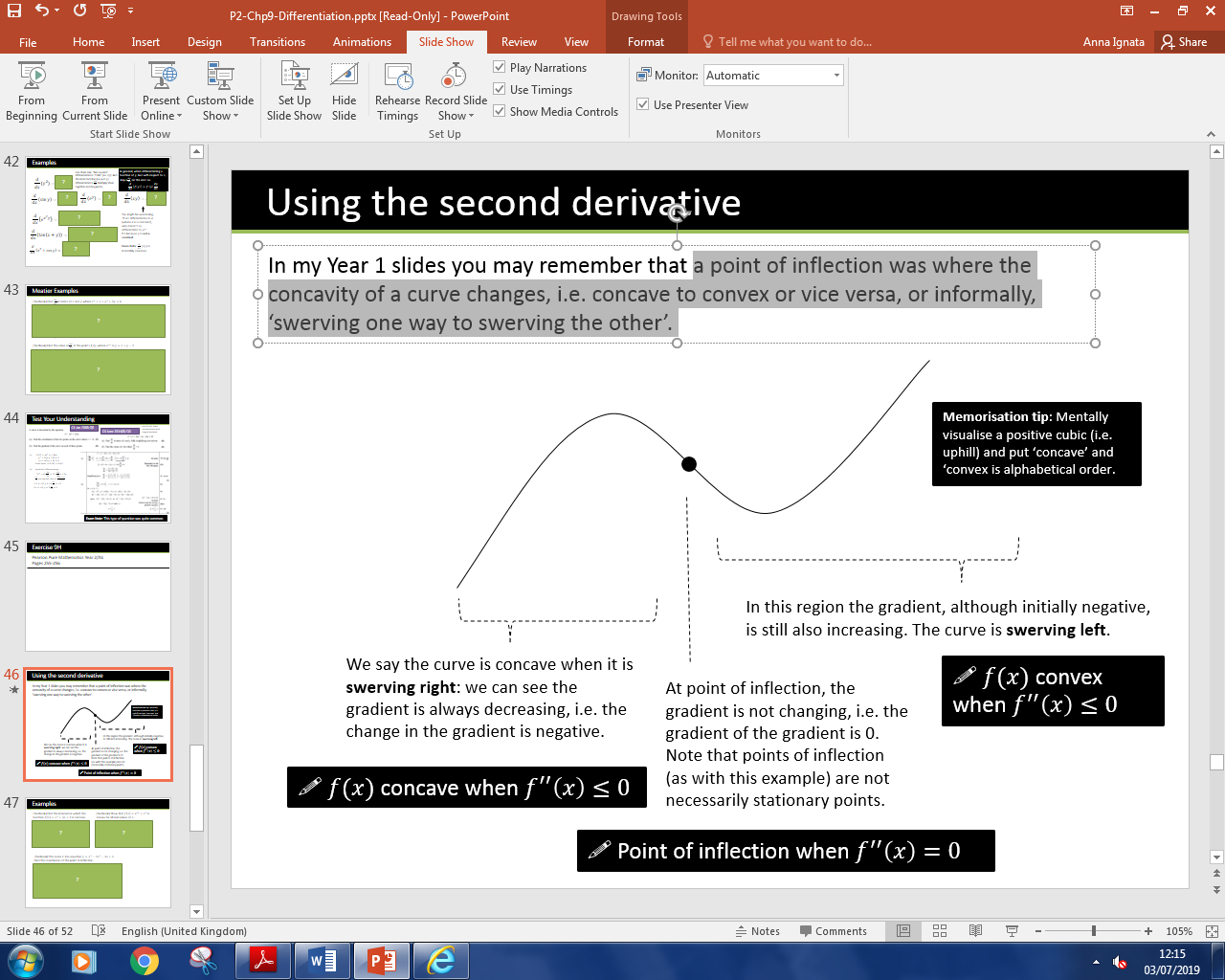
**Using the second derivative**

Reminder: a point of inflection is where the concavity of a curve changes, i.e. concave to convex or vice versa, or informally, ‘swerving one way to swerving the other’.

**Examples**

1. **Find the interval on which the function is concave.**
2. **Show that is convex for all real values of .**
3. **The curve has equation Find the coordinates of the point of inflection.**

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