Lecture 1:

<https://www.khanacademy.org/math/differential-equations/first-order-differential-equations/differential-equations-intro/v/differential-equation-introduction>

And associated links as follows:

<https://www.khanacademy.org/math/differential-equations/first-order-differential-equations/differential-equations-intro/e/introduction-to-differential-equations-and-initial-value-problems>

<https://www.khanacademy.org/math/differential-equations/first-order-differential-equations/differential-equations-intro/v/writing-a-differential-equation>

<https://www.khanacademy.org/math/differential-equations/first-order-differential-equations/differential-equations-intro/e/write-differential-equations>

<https://www.khanacademy.org/math/differential-equations/first-order-differential-equations/differential-equations-intro/v/finding-particular-linear-solution-to-differential-equation>

<https://www.khanacademy.org/math/differential-equations/first-order-differential-equations/differential-equations-intro/e/differential-equations-challenge>