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Edwards, Penney, and Calvis combine core topics in elementary differential equations with concepts and methods of elementary linear algebra.

Linear Algebra and Differential Equations Alexander Givental

10 Which of these differential equations are linear (in y)? (a) $y' + \sin y = t$ (b) $y' = t^2 (y - t)$ (c) $y' + e^t y = t$

10. Solution (a) Since this equation solves a $\sin y$ term, it is not linear in y . (b) and (c) Since these equations have no nonlinear terms in y , they are linear.

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Differential Equations and Linear Algebra by Gilbert ...

Differential equations connect the slope of a graph to its height. Slope = height, slope = -height, slope = $2t$ times height: all linear. Slope = $(\text{height})^2$ is nonlinear.

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