

Study guide for quiz 10

Quiz problems include both the lecture contents and homework problems.

1. Section 7.2: Skip the exponential change part. Study the meaning of 'separable differential equations' and the procedure of solving them.
2. Section 9.2: Study the meaning of 'First-order linear equations' and the procedure of solving them (how to multiplying an integration factor on both sides of the equation).
3. Section 7.2, 9.2: Study how to incorporate the undetermined constant of integration into the lower limit of integration in solving first order differential equations.
4. Section 7.3: Memorize the definitions of the six hyperbolic functions. Study the graph of $\sinh$, $\cosh$ and $\tanh$. Derive and memorize the derivative of the six hyperbolic functions.