







Solving Differential Equations

Challenging problems can be solved with differential equations.

6A	Understanding Differential Equations <ul style="list-style-type: none">• Explain what it means to solve a differential equation• Find solutions to basic differential equations (including +C)• Use initial values to find solutions	
6B	Understanding Slope Fields <ul style="list-style-type: none">• Create slope fields from a differential equation• Read and interpret slope fields• Match slope fields to differential equations• Use slope fields to identify solutions to differential equations	
6C	Understanding Techniques for Integration <ul style="list-style-type: none">• Integrate by substitution• Integrate by parts*• Use partial fraction decomposition to integrate*	
6D	Understanding Procedures to Solve Differential Equations <ul style="list-style-type: none">• Separate variables in order to find solutions• Use Euler's Method to approximate solutions*	
6E	Understanding Applications of Differential Equations <ul style="list-style-type: none">• Solve exponential growth and decay problems• Solve logistic growth problems*	